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DOCUMENT IDENTIFICATION

Dec 84

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REPORT DOCUMENTATION PAGE

2. Report Date: Dec 1986

3. Report Type and Dates Covered: Data Summary (LISOCS) Aug 76-Jul 86

4. Title: Limited Surface Observations Climatic Summary for Hanau AAF, Germany, WMO 106420

7. Performing Organization Name and Address: Operating Location A, USAF Environmental Technical Applications Center (OL-A, USAFETAC), Federal Building, Asheville, NC 28801-2723

8. Performing Organization Report Number: USAFETAC/DS--91/102

12. Distribution/Availability Statement: Approved for public release; distribution is unlimited.

13. Abstract: A Limited Surface Observations Climatic Summary (LISOCS) for Hanau AAF, Germany. See USAFETAC/TN-83/001 (AD-132186) for a complete decription of the RUSSWO and its contents, as well as instructions for use.

14. Subject Terms: CLIMATOLOGY, WEATHER, WEATHER STATIONS, WEATHER OBSERVATIONS, STATISTICS, METEOROLOGICAL PHENOMENA, ATMOSPHERIC PHENOMENA, ATMOSPHERIC PRESSURE, PRECIPITATION, VISIBILITY, WIND, CLOUD, CLOUD CEILING, SKY COVER, PSYCHROMETRIC DATA, TEMPERATURE, RELATIVE HUMIDITY, GERMANY, HANAU

15. Number of Pages: 275

17. Security Classification of Report: Unclassified

18. Security Classification of this Page: Unclassified

19. Security Classification of Abstract: Unclassified

20. Limitation of Abstract: UL

Standard Form 298

REVIEW AND APPROVAL STATEMENT

USAFETAC/DS-91/102, Limited Surface Observations Climatic Summary (LISOCS) for Hanau AAF, Germany, has been reviewed and is approved for public release. There is no objection to unlimited distribution of this document to the public at large, or by the Defense Technical Information Center (DTIC) to the National Technical Information Service (NTIS).

FOR THE COMMANDER

WALTER S. BURGMANN
Scientific and Technical Information
Program Manager

I HAVE REVIEWED AND FOUND SATISFACTORY THIS PRODUCT

12/12/86

Hmtn

15 Dec 86

The number that identifies the station in this summary is an AWS Master Station Catalog number. This number is comprised of the WMO number with the addition of a suffix zero; or, in cases where there is no designated WMO number, a 5-digit number created in agreement with WMO rules, plus a sixth qualifying digit. These numbers (also referred to as DATSAV or USAFETAC numbers) uniquely identify each of more than 15,000 reporting stations around the world. This is the provenance of the number (e.g., MSC 999999) which will appear on future OL-A standard products.

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

LIMITED SURFACE OBSERVATIONS
CLIMATIC SUMMARIES
(LISOCS)

DEFINITION: A RUSSWO-like set of summaries of hourly observations for the station's normal operating hours.

Hourly Observations: Those record or record-special observations recorded at established hourly intervals.

General Comments:

1. The hourly data are screened to exclude extraneous or occasional hours outside the normal observing hours.

2. A brief description preceeds each summary.

3. Summaries containing "TOTALS" and "ALL HOURS" are only from the hours summarized. These values are representative only for the operating hours.

4. The monthly and annual "ALL HOURS" summaries are not presented because they are not representative, and would result in meaningless or biased values.

5. There are no "Sky Cover" nor "Sea Level Pressure" summaries for METAR stations.

Table of Contents:

AWS Form 2 "Station History"
Part 1: Weather Conditions
Part 2: Surface Winds
Part 3: Ceiling Versus Visibility; Sky Cover
Part 4: Daily High, Low, Mean Temperatures; Max High and Min Low Temperatures; Psychrometric Tables; Mean and Standard Deviation of Temperatures; Relative Humidity
Part 5: Station Pressure; Sea Level Pressure

Standard 3-Hour Groups: All summaries having diurnal variations are summarized in 3-hour periods corresponding to the following sets of hourly observations and limited to normal observation reporting hours (LST):

0000-0200	1200-1400
0300-0500	1500-1700
0600-0800	1800-2000
0900-1100	2100-2300

Note that the first and last hour groups may or may not contain all three hours. See hours summarized on front cover to determine which hours are included in these two hour groups.

STATION LOCATION AND INSTRUMENTATION HISTORY

AWS MSC NO.	NAME OF STATION	LATITUDE	LONGITUDE	FIELD ELEV (FT)	CALL SIGN	WMO NUMBER
106420	Hanau AAF GERMANY	N 50 10	E 008 [illegible]3	369	EDID	10642

CHG NO.	GEOGRAPHICAL LOCATION AND NAME	TYPE OF STATION	AT THIS LOCATION FROM	AT THIS LOCATION TO	LATITUDE	LONGITUDE	ELEVATION ABOVE MSL FIELD (FT)	ELEVATION ABOVE MSL HT BARO	OBS PER DAY
1	Hanau AAF GE	AAF	May 46	Aug 46	N 50 10	E 008 58	377	377	24
2	Same	Same	Apr 56	Apr 56	Same	E 008 57	Same	Same	16 Daily
3	Same	Same	Oct 56	Oct 57	Same	Same	Same	Same	18&17Daily
4	Same	Same	Nov 57	Jun 61	Same	Same	Same	Same	12-15M-
									F,4-8 Sat Closed Sun
5	Same	Same	Jul 61	Oct 64	Same	Same	Same	373	12-17M-
									F,4-8 Sat
6	Same	Same	Nov 64	Jul 66	Same	Same	Same	Same	Closed Sun 24
7	Same	Same	Aug 66	Sep 66	Same	Same	Same	Same	14 Daily
8	Same	Same	Oct 66	May 68	Same	Same	Same	Same	24
9	Same	Same	Jun 68	Jul 68	Same	Same	Same	Same	17 Daily
10	Same	Same	Aug 68	Jun 70	Same	Same	Same	Same	24
111	Same	Same	Jul 70	Dec 72	Same	Same	Same	380	24
12	Same	Same	Dec 72	Feb 76	Same	E 008 58	369	371	24
13	Same	Same	Mar 76	Jul 86	Same	Same	Same	Same	14-17 Closed Sat/
									Sun Holi-days
*	See Remarks!								

CHG NO.	DATE OF CHANGE	SURFACE EQUIPMENT INFORMATION LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
1	May-Aug46	Located on the Terminal Bldg.	Selsyn	None	62Ft	* Obs per day: M-TH 14-17, FR 12
2	Apr 56to	Located on top of Weather Station	AN/GMQ-1	None	40Ft	Clsd Sat, Sun and US Holidays
3	Feb 60 Mar 60to	Bldg Located on top of Control Tower,	AN/GMQ-11	None	50Ft	
4	Feb 63 Mar 63to	Same	Same	None	60Ft	
5	Feb 66 Mar 66to	Located 500 ft N of center of Rnwy	Same	RO-2	13Ft	
6	Dec 72 Dec 72to	28,700 ft from end of Rnwy. Same	Same	RO-362	13 Ft	
	Dec 82					

AWS FORM 2 NOV 83

HANAU AAF GERMANY
ESTIMATED SUMMARY OF DAY DATA

MONTH	TEMPERATURE		PRECIPITATION				SNOWFALL				WINDS
	MAX	MIN	MAX 24HR	MAX MON	MEAN MON	MIN MON	MAX 24HR	MAX MON	MEAN MON	MIN MON	PEAK GUSTS
JAN	57	-5	1.2	3.8	1.4	.2	6	8	4	#	46
FEB	64	-4	1.2	2.8	1.5	#	5	18	4	0	74
MAR	77	9	1.1	3.6	1.5	#	3	6	2	0	50
APR	87	21	1.2	4.2	2.0	.1	1	2	#	0	49
MAY	93	28	1.5	6.6	1.9	.2	#	#	#	0	41
JUN	95	32	2.2	6.1	2.6	.1	0	0	0	0	36
JUL	98	39	1.8	5.2	2.5	.1	0	0	0	0	42
AUG	98	37	3.1	6.2	2.5	#	0	0	0	0	31
SEP	89	32	1.8	6.0	2.1	#	0	0	0	0	35
OCT	81	24	2.2	6.3	1.6	#	#	#	#	0	44
NOV	69	11	1.8	6.0	2.2	.1	5	8	3	0	50
DEC	61	0	1.7	5.5	2.3	#	6	13	4	0	47
ANN	98	-5	3.1	22.0	24.0	#	6	18	17	0	74
YEARS	30	30	30	30	30	30	30	30	30	30	15

NOTE: # INDICATES LESS THAN THE AMOUNT INDICATED IN THAT COLUMN. ALL TEMPERATURES ARE IN DEGREES FAHRENHEIT AND THE PRECIPITATION/SNOWFALL AMOUNTS ARE IN INCHES.

HANAU AAF GERMANY
DAYS WITH

MONTH	FOG	MEASURABLE PRECIPITATION	THUNDERSTORMS	MEASURABLE SNOWFALL	SNOW COVER
JAN	23	15	#	7	9
FEB	19	14	#	5	6
MAR	18	14	1	3	2
APR	15	14	2	2	#
MAY	16	14	4	#	0
JUN	16	12	5	0	0
JUL	17	11	4	0	0
AUG	19	14	4	0	0
SEP	22	10	2	0	0
OCT	24	10	#	#	0
NOV	23	14	#	3	1
DEC	24	14	#	7	5
ANN	236	160	22	27	22
YEARS	30	30	30	30	30

THE LACK OF SUMMARY OF DAY DATA PRECLUDES A COMPLETE CLIMATIC BRIEF, HOWEVER THE DATA PRESENTED HERE WERE OBTAINED FROM SEVEKAL SOURCES AND COMBINED BY A CLIMATOLOGIST.

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

WEATHER CONDITIONS

1

PART 1

This summary is a percentage frequency occurrence of various atmospheric phenomena and obstructions to vision, derived from hourly observations, and is presented by month by the available 3-hour groups.

Thunderstorms--All reported occurrences of thunderstorm, tornado, and waterspout.

Rain and/or drizzle--All liquid precipitation, falling to the ground, not freezing.

Freezing rain and/or freezing drizzle (glaze)--Precipitation falling in liquid form, but freezing on contact with an unheated surface.

Snow and/or sleet (ice pellets)--Included are snow, snow pellets, sleet, snow grains, ice crystals, and ice pellets. (Snow pellets also known as soft hail.)

Hail--Occurrences of hail.

Percentage of observations with precipitation--Included in this category are the observations when one or more of the above phenomena occurred. Since more than one type of precipitation may be reported in the same observation, the sum of the individual categories may exceed the percentage of the observations with precip.

Fog--Included are fog, ice fog, and ground fog.

Smoke and/or haze--Occurrences of smoke, haze, or combinations of smoke and haze are included.

Blowing snow--Occurrences of blowing snow.

Dust and/or sand--Included are blowing dust, blowing sand, and dust.

Blowing spray--This item if reported, is not shown in a separate category on this form but is included in the computation Percentage of Observations with Obstructions to Vision, below.

Percentage of observations with obstructions to vision--Included in this category are the observations when one or more of the above obstructions to vision occurred. Since more than one type of obstruction may be reported in the same observation, the sums of the individual categories may exceed the percentage total columns. Also, although precipitation may reduce visibility, it is not considered an obstruction to vision for purposes of this summary; therefore, the percentage total of obstructions to vision need not reflect the total observations with reduced visibility.

Continued on Reverse

NOTE: 1. For METAR stations beginning Jan 68 and Synoptic reporting stations, only the highest order of atmospheric phenomena was reported, recorded on the AWS Forms 10a, and transmitted longline. Beginning Jan 70, METAR stations recorded all atmospheric phenomena on the AWS Form 10a, but transmitted longline only the highest order. For example, if the observation consisted of rain, fog and smoke, only the rain was transmitted longline. Our data base, as a result, contains only rain for that observation. Because of these reporting procedures the summaries for METAR and Synoptic reporting stations are highly questionable in the hourly summaries. This primarily effects the obstruction to vision columns, but may also have minor effects on the precipitation columns.

2. When the value of ".0" appears in the summaries, it represent one or more occurrences amounting to less than .05 percent.

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

106420 HANAU AAF GERMANY 77-86 JAN

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	00-02												
	03-05												
	06-08		15.4	.4	7.4		22.6	44.1	1.4			45.6	487
	09-11		13.4	.6	11.2		23.5	38.8	3.0			41.9	699
	12-14		11.8	.3	7.8		18.8	29.8	10.9			40.7	684
	15-17	.2	12.7	.3	6.3		18.6	27.3	10.2			37.5	640
	18-20	.2	12.7	.4	7.7		20.2	38.1	6.2			44.3	535
	21-23		12.6		9.2		20.1	36.2	2.9			39.1	174
TOTALS		.1	13.1	.3	8.3		20.6	35.7	5.8			41.5	3149

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

106420 HANAU AAF GERMANY 77-86 FEB

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	N OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	N OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
FEB	00-02												
	03-05												
	06-08		9.2		8.3		17.2	47.7	8.5			56.2	436
	09-11		8.8		10.4		18.2	37.2	14.1			51.3	589
	12-14		10.1		7.7		17.4	17.4	25.1			42.6	585
	15-17		9.2		5.8	.2	14.3	15.1	26.7			41.8	589
	18-20		5.8	.4	3.3		9.5	27.0	25.3			52.2	538
	21-23		3.4		1.1		4.5	39.1	27.4			66.5	179
TOTALS			7.8	.1	6.1	.0	13.5	30.6	21.2			51.8	2916

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

106420 HANAU AAF GERMANY 77-86 MAR

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
MAR	00-02												
	03-05												
	06-08		16.5		2.2	.2	18.1	43.7	5.4			49.2	496
	09-11		15.6		2.4		17.5	28.2	16.8			45.0	680
	12-14	.3	12.8		1.8		14.0	12.2	23.5			35.7	681
	15-17	.1	12.8		1.2		12.9	6.3	22.5			28.8	681
	18-20	.5	14.5		1.0		14.7	12.0	19.6			31.6	592
	21-23		12.4		.9		12.9	26.2	14.7			40.9	225
TOTALS		.2	14.1		1.6	.0	15.0	21.4	17.1			38.5	3356

USAFETAC FORM JULY 64 0-10-5(OL A), PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

106420 — STATION
HANAU AAF GERMANY — STATION NAME
77-86 — YEARS
APR — MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
APR	00-02												
	03-05												
	06-08		16.0		3.2		18.6	32.1	7.1			39.2	630
	09-11	.2	13.0		3.1		15.2	13.2	14.9			28.1	652
	12-14	.3	11.9		1.1	.2	12.8	3.7	10.8			14.5	641
	15-17	.6	11.6		1.0	.2	12.4	1.8	7.6			9.3	621
	18-20	1.3	9.0		.9		9.9	3.4	9.2			12.6	554
	21-23	.3	10.7		.7		11.0	9.0	9.3			18.3	300
TOTALS		.5	12.0		.7	.1	13.3	10.5	9.8			20.3	3398

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

106420 HANAU AAF GERMANY 77-86 MAY

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
MAY	00-02												
	03-05												
	06-08		13.6				13.6	30.8	5.8			36.6	639
	09-11	.2	15.9				15.9	10.1	11.1			21.2	656
	12-14	.8	18.9				18.9	2.3	4.2			6.5	662
	15-17	2.8	17.3			.2	17.4	2.0	3.9			5.9	648
	18-20	1.5	12.4				12.4	5.9	2.8			8.7	539
	21-23	1.4	13.4			.4	13.7	13.0	6.7			19.7	284
TOTALS		1.1	15.3			.1	15.3	10.7	5.8			16.4	3428

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

106420 HANAU AAF GERMANY 77-86 JUN

STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF O
JUN	00-02												
	03-05												
	06-08	.9	11.1				11.1	28.5	9.0			37.6	655
	09-11	.8	13.7				13.7	6.4	10.9			17.3	652
	12-14	1.1	11.0				11.0	3.1	5.7			8.7	654
	15-17	2.0	8.8				8.8	3.3	4.9			8.2	638
	18-20	2.1	10.2				10.2	3.6	4.1			7.7	559
	21-23	1.5	9.6				9.6	13.4	5.4			18.8	335
TOTALS		1.4	10.7				10.7	9.7	6.7			16.4	3493

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

106420 HANAU AAF GERMANY 77-86 JUL

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JUL	00-02												
	03-05												
	06-08	.7	10.7				10.7	31.4	6.3			37.7	608
	09-11	.2	10.0				10.0	8.0	12.4			20.4	637
	12-14	.3	7.2				7.2	3.0	6.6			9.6	636
	15-17	1.4	6.1				6.1	1.9	5.0			6.9	636
	18-20	1.5	8.7				8.7	2.2	5.7			7.9	598
	21-23	1.6	7.8				7.8	12.9	10.8			23.7	371
TOTALS		1.0	8.4				8.4	9.9	7.8			17.7	3486

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

106420 HANAU AAF GERMANY 76-85 AUG

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
AUG	00-02												
	03-05												
	06-08	.3	6.9				6.9	47.7	7.8			55.5	696
	09-11	.4	5.3				5.3	14.8	17.5			32.2	704
	12-14	.6	6.2				6.2	2.7	10.7			13.4	707
	15-17	.9	7.2				7.2	2.0	7.0			9.1	696
	18-20	.9	5.7				5.7	4.0	9.0			13.0	652
	21-23	.5	6.1				6.1	15.6	11.6			27.2	379
TOTALS		.6	6.2				6.2	14.5	10.6			25.1	3834

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

106420 HANAU AAF GERMANY 76-85 SEP

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
SEP	00-02												
	03-05												
	06-08		6.1				6.1	59.8	3.0			62.8	674
	09-11	.1	5.4				5.4	32.0	19.9			52.0	687
	12-14	.3	8.4				8.4	6.2	19.6			25.8	664
	15-17	.5	9.7				9.7	2.9	14.7			17.5	627
	18-20	1.0	9.4				9.4	13.0	15.0			28.0	607
	21-23		8.7				8.7	25.7	11.5			37.2	366
TOTALS		.3	8.0				8.0	23.3	14.0			37.2	3625

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

106420 HANAU AAF GERMANY 76-85 OCT

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
OCT	00-02												
	03-05												
	06-08		11.5				11.5	61.2	1.7			62.9	480
	09-11		11.8				11.8	45.2	9.5			54.7	660
	12-14		8.3				8.3	20.4	17.1			37.6	636
	15-17		8.0				8.0	12.7	18.2			30.9	615
	18-20	.2	9.1				9.1	33.6	10.5			44.1	560
	21-23		6.6				6.6	49.6	4.8			54.4	228
TOTALS		.0	9.2				9.2	37.1	10.3			47.4	3179

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

106420 HANAU AAF GERMANY 76-85 NOV

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
NOV	00-02												
	03-05												
	06-08		11.8		2.5		13.6	56.4	3.0			59.4	433
	09-11		12.8		3.2		15.2	45.9	6.9			52.8	593
	12-14		10.7		2.0		12.6	30.1	16.1			46.2	589
	15-17		11.4		2.2		13.3	27.3	16.6			43.9	586
	18-20	.4	12.7		.8		13.5	40.6	8.9			49.5	527
	21-23		9.5		2.7		11.8	48.2	3.6			51.8	220
TOTALS		.1	11.5		2.2		13.3	41.4	9.2			50.6	2948

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

106420 HANAU AAF GERMANY 76-85 DEC

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
DEC	00-02												
	03-05												
	06-08		21.3		3.6		24.2	47.2	2.4			49.6	413
	09-11	.2	15.3		6.7		21.6	41.0	4.7			45.7	615
	12-14	.2	15.4	.5	4.3		20.2	30.5	7.9			38.4	609
	15-17		15.4	.3	5.4		20.6	30.9	7.7			38.6	596
	18-20	.3	15.2		2.5		17.4	43.6	3.0			46.7	362
	21-23		7.7		1.7		9.4	59.8	2.6			62.4	117
TOTALS		.1	15.1	.1	4.0		18.9	42.2	4.7			46.9	2712

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

106420 HANAU AAF GERMANY 76-86 ALL

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	ALL	.1	13.1	.3	8.3		20.6	35.7	5.8			41.5	3149
FEB			7.8	.1	6.1	.0	13.5	30.6	21.2			51.8	2916
MAR		.2	14.1		1.6	.0	15.0	21.4	17.1			38.5	3355
APR		.5	12.0		1.7	.1	13.3	10.5	9.8			20.3	3398
MAY		1.1	15.3			.1	15.3	10.7	5.8			16.4	3428
JUN		1.4	10.7				10.7	9.7	6.7			16.4	3493
JUL		1.0	8.4				8.4	9.9	7.8			17.7	3486
AUG		.6	6.2				6.2	14.5	10.6			25.1	3834
SEP		.3	8.0				8.0	23.3	14.0			37.2	3625
OCT		.0	9.2				9.2	37.1	10.3			47.4	3179
NOV		.1	11.5		2.2		13.3	41.4	9.2			50.6	2948
DEC		.1	15.1	.1	4.0		18.9	42.2	4.7			46.9	2712
TOTALS		.5	11.0	.0	2.0	.0	12.7	23.9	10.3			34.2	39523

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

SURFACE WINDS

2

PART 2

Presented in this part are various tabulations of surface winds as follows:

Bivariate percentage frequency tabulations: Derived from hourly observations, these tabulations are a percentage frequency of wind directions to 16 compass points and calm vs 11 wind speed (knots) increments in Beaufort classifications. Percentages are shown for both directions and speed, and in addition the mean wind speed is given for each direction.

A separate category is provided on the form for variable winds, which are reported in some data sources. In these data where light and variable winds are reported with no directions but with speeds given, the speeds will be summarized in the appropriate groups opposite the column headed VRBL.

These tables are prepared for all years combined, by month by available 3-hour groups.

A percentage frequency of ".0" in these tables represents one or more occurrences amounting to less than ".05" percent.

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105423 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 77-80
MONTH: JAN HOURS(LST): 0600-0800

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.8	.4										1.2	3.3
NNE	1.0	.9	.4									2.3	4.0
NE	.4	1.8										2.3	4.2
ENE	1.6	1.2										2.9	3.3
E	1.0	1.2	.6									2.9	4.7
ESE	.6											.6	1.7
SE	1.0	.2	.6									1.8	4.3
SSE	1.8	2.7	1.6	.2								6.4	5.1
S	3.3	3.9	2.7	.4								10.3	5.4
SSW	1.4	2.7	4.5	2.1								10.7	7.7
SW	.4	2.3	3.1	2.5								8.2	8.8
WSW	.4	1.0	1.4									2.9	6.0
W	.5	1.4	.8	.4								3.3	6.8
WNW	.4	.8	.6									1.8	5.2
NW	.8	.6	.8	.2								2.8	5.9
NNW	1.4	.5	.4	.4								2.9	4.8
VARIABLE			.8	.2								1.0	9.6
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	36.1	//////
TOTALS	17.2	21.8	16.5	6.4								100.0	3.8

TOTAL NUMBER OF OBSERVATIONS: 457

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105420 STATION NAME: HAHAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: JAN HOURS(LST): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.5	.6	.8									1.8	6.3
NNE	.8	.2	.6	.2								1.7	8.5
NE	1.1	1.8	.3									3.2	4.2
ENE	1.7	1.2	.5									3.3	4.0
E	1.1	.9	.9									2.9	5.0
ESE	1.1	.6		.2								1.8	3.6
SE	.5	.5	.6									1.5	5.5
SSE	1.4	2.9	2.3	.2								6.7	5.7
S	2.9	5.0	2.3	.3								10.5	5.3
SSW	.8	2.6	4.2	2.0								9.6	8.0
SW	.2	2.0	5.6	2.9								10.6	9.3
WSW	.6	.9	2.4	.8								4.7	7.4
W	.6	1.4	1.8	.6								4.4	7.3
WNW	.5	.5	.2									1.1	4.1
NW	.5	.2		.5								1.3	7.0
NNW	.8	.9	.9									3.6	5.4
VARIABLE			1.2	.9								2.1	10.3
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	30.3	//////
TOTALS	14.7	22.0	24.6	8.3								100.0	4.6

TOTAL NUMBER OF OBSERVATIONS: 659

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105420 STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 77-86
MONTH: JAN HOURS(LST): 1200-1400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.2	.9	.6									2.8	4.2
NNE	1.1	1.1	1.1									3.2	5.4
NE	.9	.8	.5									2.1	4.7
ENE	1.4	1.4	.8									3.5	4.6
E	.5	1.2	1.7	.2								3.5	6.3
ESE	.5	.6	.3									1.4	4.9
SE	.8	.8	.6									2.1	5.3
SSE	1.5	1.8	1.4									4.7	5.3
S	2.4	3.4	2.8	.2								8.7	5.6
SSW	.9	3.4	4.7	3.5								12.5	8.2
SW	.2	1.2	6.1	2.6								10.1	9.3
WSW	.5	1.2	1.1	2.3								5.0	9.2
W	.3	.9	2.0	.6	.3							4.1	8.3
WNW	.2	.2	.6									.9	6.3
NW	.8	.9	.6	.2								2.4	5.3
NNW	2.4	1.2	.8	.3								4.7	4.6
VARIABLE		.2	4.0	1.4	.5							6.0	10.7
CALM	////	////	////	////	////	////	////	////	////	////	////	22.0	////
TOTALS	15.4	21.1	29.5	11.2	.8							100.0	5.5

TOTAL NUMBER OF OBSERVATIONS: 654

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: JAN HOURS(LST): 1500-1700

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.9	1.9	1.1									3.9	5.2
NNE	1.7	.6	.6	.5								3.6	5.1
NE	.3	.6	.9									1.9	6.2
ENE	.2	1.3	.2									1.6	4.6
E	.8	2.0	.9	.2								3.9	5.4
ESE	1.3	1.3	.8									3.3	5.0
SE	.8	1.1	.6	.2								2.7	4.9
SSE	3.0	3.1	.9	.2								7.2	4.6
S	2.5	4.4	2.0	.9								9.8	5.7
SSW	1.3	2.7	5.3	2.0		.2						11.4	8.1
SW	.2	2.5	6.4	1.3								10.3	8.3
WSW	.3	.8	2.8	1.4								5.3	8.6
W	.8	.9	1.9	.9								4.5	7.8
WNW	.2	.9	.8	.2								2.0	6.6
NW	.3	.8	.2	.2								1.4	5.2
NNW	.9	1.1	.5	.2								2.7	5.3
VARIABLE	.2	.2	2.0	.5	.2							3.0	9.4
CALM	////	////	////	////	////	////	////	////	////	////	////	21.6	////
TOTALS	15.5	26.1	28.1	8.4	.2	.2						100.0	5.2

TOTAL NUMBER OF OBSERVATIONS: 640

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105420 STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 77-86
MONTH: JAN HOURS(LST): 1800-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.7	.6	.2									1.5	4.3
NNE	.7	.9	.7									2.4	5.4
NE	.6	.4	1.1									2.1	6.1
ENE	.7	1.7	.7									3.2	5.0
E	1.9	1.1	.7	.2								3.9	4.8
ESE	2.4	1.1	.4									3.9	3.4
SE	.9	1.3	1.3									3.6	5.7
SSE	1.7	2.2	1.1	.4								5.4	5.3
S	2.6	3.9	3.6									10.1	5.5
SSW	.7	3.4	4.9	1.5								10.5	7.6
SW	.4	2.6	5.8	2.2	.2							11.2	8.4
WSW	.2	.6	2.1	1.3								4.1	9.5
W	.2	1.3	.9	.4								2.8	7.5
WNW	.2	.9	.6									1.7	6.4
NW	.4	1.1		.2								1.7	4.7
NNW	.5	.9	.4									1.9	4.5
VARIABLE			.6	.4								.9	9.2
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	29.2	//////
TOTALS	15.0	24.1	25.0	6.5	.2							100.0	4.5

TOTAL NUMBER OF OBSERVATIONS: 535

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 77,81-86
MONTH: JAN HOURS(LST): 2100-2300

DIRECTION (DEGREES)	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
	WIND SPEED IN KNOTS												
N	.6	.6										1.1	3.0
NNE		1.1										1.1	4.0
NE	1.7	.6	.6									2.9	3.4
ENE		.6										.6	4.0
E	.6	.6										1.1	3.5
ESE	1.7	.6										2.3	2.3
SE	.6	1.1	.6									2.3	4.8
SSE	4.6	4.0	.6									9.2	3.7
S	2.9	5.2	2.3	2.3								12.6	6.5
SSW	1.1	2.9	4.6	.6								9.2	6.5
SW	.6	1.7	9.8	1.7								13.8	8.6
WSW	1.1	.6	2.3									4.0	6.4
W	1.7	.6	.6									2.9	4.2
WNW	1.7		1.7	1.1								4.6	7.4
NW													
NNW				.6								.6	13.0
VARIABLE			1.1									1.1	9.5
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	30.5	//////
TOTALS	19.0	20.1	24.1	6.3								100.0	4.2

TOTAL NUMBER OF OBSERVATIONS: 174

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10542J STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 77-86
MONTH: JAN HOURS(LST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.8	.9	.5									2.3	4.6
NNE	1.0	.7	.7	.1								2.6	5.1
NE	.7	1.0	.6									2.3	4.8
ENE	1.0	1.3	.4									2.8	4.5
E	1.0	1.3	1.0	.1								3.3	5.3
ESE	1.2	.7	.3	.0								2.2	4.0
SE	.8	.8	.7	.0								2.3	5.2
SSE	2.0	2.6	1.4	.2								6.3	5.1
S	2.7	4.2	2.6	.5								10.0	5.5
SSW	1.0	2.9	4.7	2.2		.0						10.9	7.9
SW	.3	2.1	5.7	2.3	.0							10.4	8.8
WSW	.4	.9	2.0	1.1								4.5	8.2
W	.6	1.1	1.5	.6	.1							3.8	7.4
WNW	.3	.6	.6	.1								1.7	6.1
NW	.5	.7	.3	.2								1.7	5.6
NNW	1.2	.9	.6	.2								2.9	5.0
VARIABLE	.0	.1	1.8	.7	.1							2.7	10.2
CALM	//////////											21.5	//////
TOTALS	15.7	22.9	25.4	8.2	.2	.0						100.0	4.7

TOTAL NUMBER OF OBSERVATIONS: 3149

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: FEB HOURS(LST): 0600-0800

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	4.1	3.7	.9									8.7	4.0
NNE	1.4	2.1	1.1									4.6	4.9
NE	1.4	.7	1.1									3.2	4.9
ENE	1.8	2.8	.5									5.0	4.2
E	2.5	3.4	.7									6.7	4.2
ESE	.5	.5										.9	3.0
SE	.5											.5	2.0
SSE	1.6	.5										2.1	2.6
S	1.4	1.4	1.1									3.9	5.2
SSW	.5	2.1	2.3	.5								5.3	7.1
SW	.5	1.6	1.8	.2								4.1	6.9
WSW	.5	.9	.7	.2								2.3	6.2
W	.2	.7	.7	.2	.2							2.1	7.9
WNW	.2	.2	.2	.5								1.1	8.2
NW	.9	.2										1.1	2.6
NNW	1.4	.5	.7									2.5	4.2
VARIABLE		.2	1.4									1.6	8.9
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	44.3	//////
TOTALS	19.3	21.3	13.3	1.6	.2							100.0	2.9

TOTAL NUMBER OF OBSERVATIONS: 436

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10542J STATION NAME: HAHAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: FEB HOURS(LST): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	3.4	2.5	.8									6.8	3.9
NNE	2.2	3.2	1.5									7.0	4.7
NE	2.7	2.5	.8	.3								6.5	4.5
ENE	2.5	3.6	1.0	.2								7.3	4.7
E	1.9	2.5	1.2									5.6	4.4
ESE	.8	.7	1.4									2.9	5.5
SE	.8	.2	.2									1.2	3.1
SSE	.7	.5	1.2									2.4	5.7
S	1.0	2.5	.7	.7								4.9	6.0
SSW	1.4	.8	1.7	.8								4.8	6.9
SW	1.0	.7	2.2	.8	.3							5.1	8.2
WSW	.5		1.7	.2								2.4	7.3
W	.5	.2	1.0	.7								2.4	8.2
WNW	.3	.3	.3		.2							1.2	7.4
NW	.3	.8		.3								1.5	6.7
NNW	1.0	2.2	.3	.3								3.9	5.3
VARIABLE			1.0	.3								1.4	9.4
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	32.9	//////
TOTALS	21.2	23.4	17.1	4.8	.5							100.0	3.7

TOTAL NUMBER OF OBSERVATIONS: 539

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10642J STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 77-86
MONTH: FEB HOURS(LST): 1200-1400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	2.9	2.7	1.5									7.2	4.3
NNE	1.8	4.3	3.1	.3								8.7	5.9
NE	1.9	3.1	.7									4.8	4.8
ENE	1.5	3.1	1.7	.2								6.5	5.4
E	.9	3.4	3.8	.3								8.4	6.4
ESE	.7	.9	2.1									3.6	6.4
SE	.5	.5	.3									1.4	5.1
SSE	.3	1.7	.7									2.7	4.9
S	1.2	1.5	.7									3.4	4.9
SSW	1.4	1.5	2.9	1.4								7.2	7.5
SW	.3	1.9	2.4	1.0	.3							6.0	8.7
WSW	.9	.7	.5	.2								2.2	5.3
W	.5	.5	2.6	.9								4.4	8.4
WNW	.3	.5	.2	.3								1.4	6.8
NW	1.0	1.5	.7	.3								3.6	5.7
NNW	2.7	2.7	.7	.3	.2							6.7	4.8
VARIABLE	.5		2.4	1.0								3.9	8.6
CALM	////	////	////	////	////	////	////	////	////	////	////	17.9	////
TOTALS	17.8	30.6	26.8	6.3	.5							100.0	5.1

TOTAL NUMBER OF OBSERVATIONS: 585

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10542D STATION NAME: HAHAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: FEB HOURS(LST): 1500-1700

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	2.4	2.2	1.2	.2								5.9	4.7
NNE	1.4	2.5	4.6	.7								9.2	6.8
NE	1.9	1.9	1.2	.5								5.4	5.5
ENE	1.7	3.1	1.7	.2								6.6	5.2
E	2.7	3.7	2.2	.3								9.0	5.1
ESE	1.3	1.4	2.4	.2								4.9	6.4
SE	.8	.8	.3									2.0	4.2
SSE	1.9	1.2	.3									3.4	3.5
S	1.7	1.9	1.0	.2								4.8	4.8
SSW	.3	1.0	3.1	.3								4.8	7.7
SW	1.2	.8	1.9	1.2								5.1	7.7
WSW	.8	.5	1.0	.7								3.1	7.2
W	.7	1.0	2.5	.3	.3	.3						5.3	9.0
WNW	.7	.2	1.0	.5								2.4	7.4
NW	1.5	2.0	.2	.2								3.9	4.3
NNW	.8	2.4	1.4	.2								4.8	5.6
VARIABLE		.5	1.4	.3								2.2	8.3
CALM	//////////											17.3	//////
TOTALS	21.6	27.2	27.3	5.9	.3	.3						100.0	5.0

TOTAL NUMBER OF OBSERVATIONS: 589

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105410 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: FEB HOURS(LST): 1800-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	3.2	3.2	1.5									7.8	4.2
NNE	2.0	3.9	3.9	.6								10.4	6.3
NE	2.0	1.9	2.2	.2								6.3	5.4
ENE	2.4	1.9	.4									4.6	3.8
E	4.3	2.6	.2									7.1	3.1
ESE	2.2	.7	.4	.2								3.5	3.7
SE	1.1	.4										1.5	2.8
SSE	1.5	2.6	.2									4.3	4.1
S	.7	1.5	.7									3.0	4.8
SSW	.4	1.7	1.9	.6								4.5	7.3
SW	.2	1.3	1.1	.9								3.5	7.9
WSW	.4	1.1	.7	.4	.2							2.8	7.2
W	.5	1.9	1.5		.2							4.1	6.3
WNW		1.1	.2	.2								1.5	6.4
NW		.4	.2	.2								.7	7.5
NNW	1.1	.4										1.5	3.0
VARIABLE			.4	.2								.6	9.7
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	32.3	//////
TOTALS	22.1	26.4	15.4	3.3	.4							100.0	3.5

TOTAL NUMBER OF OBSERVATIONS: 538

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 79-86
MONTH: FEB HOURS(LST): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	2.2	3.9	.6									6.7	4.3
NNE	2.8	8.4	1.7									12.8	4.6
NE	1.7	4.5	3.9									10.1	5.7
ENE	1.1	1.7	1.7									4.5	5.0
E	1.7	2.2	1.1									5.0	4.8
ESE	1.1		.6									1.7	4.0
SE	.6	1.7										2.2	4.3
SSE	.6	.6										1.1	3.5
S	1.7		1.1									2.8	4.6
SSW			1.7	1.1								2.8	9.6
SW	.5	.6	.6									1.7	4.7
WSW		.6		1.1								1.7	9.7
W		1.7	.6	.6								2.8	6.6
WNW		.6	.6									1.1	7.0
NW	.6											.6	2.0
NNW	1.1	.6										1.7	3.3
VARIABLE													
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	40.8	//////
TOTALS	15.6	26.8	14.0	2.8								100.0	3.1

TOTAL NUMBER OF OBSERVATIONS: 179

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10542J STATION NAME: HAHAU AAF GERMANY PERIOD OF RECORD: 77-86
MONTH: FEB HOURS(LST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	3.1	2.9	1.2	.0								7.2	4.2
NNE	1.7	3.6	2.8	.3								8.4	5.8
NE	1.8	2.2	1.4	.2								5.6	5.1
ENE	2.0	2.8	1.1	.1								6.0	4.8
E	2.4	3.1	1.6	.1								7.2	4.8
ESE	1.1	.8	1.3	.1								3.2	5.5
SE	.8	.5	.2									1.4	3.8
SSE	1.1	1.3	.5									2.9	4.2
S	1.2	1.7	.9	.2								3.9	5.2
SSW	.8	1.3	2.3	.8								5.1	7.4
SW	.7	1.2	1.8	.8	.1							4.6	7.9
WSW	.6	.6	.9	.4	.0							2.5	6.8
W	.5	.9	1.6	.4	.1	.1						3.7	8.0
WNW	.3	.5	.4	.3	.0							1.5	7.2
NW	.8	1.0	.2	.2								2.2	5.1
NNW	1.4	1.6	.6	.2	.0							3.8	4.9
VARIABLE	.1	.1	1.2	.4								1.9	8.7
CALM	//////////											28.8	//////
TOTALS	20.1	26.1	20.1	4.5	.4	.1						100.0	4.0

TOTAL NUMBER OF OBSERVATIONS: 2916

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105423 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: MAR HOURS(LST): 0600-0800

DIRECTION (DEGREES)	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
	WIND SPEED IN KNOTS												
N	.8	.8	1.2	.6								3.4	7.1
NNE	1.2	1.0										2.2	3.5
NE	1.4	.2	1.0									2.6	4.5
ENE	.8	1.8	.2									2.8	4.1
E	1.2											1.2	2.2
ESE													
SE	.4	.6										1.0	3.6
SSE	1.2	2.6	2.2									6.0	5.3
S	1.6	4.8	2.6									9.1	5.2
SSW	.4	2.2	2.2	.8								5.6	7.1
SW	.5	2.0	6.5	.2								9.3	7.5
WSW	1.2	1.6	.4	.6								3.8	5.5
W	.4	.6	.6									1.6	5.5
WNW		.4	.2									.6	5.3
NW	.4	.4	.8									1.6	5.6
NNW	1.8	.8	.6	.2								3.4	4.7
VARIABLE			1.2	1.0								2.2	10.2
CALM	/////	/////	/////	/////	/////	/////	/////	/////	/////	/////	/////	43.3	/////
TOTALS	13.5	20.0	19.8	3.4								100.0	3.3

TOTAL NUMBER OF OBSERVATIONS: 496

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 77-86
MONTH: MAR HOURS(LST): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	2.1	1.8	1.3	.6								5.7	5.5
NNE	.7	1.2	1.5									3.4	5.9
NE	.3	.4	.3	.3								1.3	6.9
ENE	1.3	2.1	.6	.1								4.1	4.8
E	1.2	1.3	.6	.1								3.2	4.9
ESE	.6	.1										.7	2.8
SE	.7	.6	.7	.3								2.4	6.1
SSE	1.9	1.6	.7	.3								4.6	4.5
S	2.8	2.1	3.1	.9								8.8	5.9
SSW	.7	2.4	4.0	2.2								9.3	8.0
SW	.6	1.5	6.0	2.8								10.9	8.9
WSW	.4	.6	2.1	1.5								4.6	8.8
W	.4	.9	1.0	.3								2.6	6.8
WNW	.1	.4	1.2	.4								2.2	8.4
NW	1.2	.9	.6									2.6	4.4
NNW	2.2	1.3	.9	.4								4.9	5.0
VARIABLE	.1		2.9	1.5	.4							5.0	10.8
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	23.1	//////
TOTALS	17.5	19.1	27.5	11.8	.4							100.0	5.2

TOTAL NUMBER OF OBSERVATIONS: 680

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10542J STATION NAME: HAHAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: MAR HOURS(LST): 1200-1400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	2.5	1.2	.9	.4								5.0	4.8
NNE	.7	.4	1.8	.6								3.5	7.3
NE	.6	1.3	1.2	.7	.1							4.0	7.4
ENE	.7	1.2	.6	.1								2.6	5.1
E	.6	1.5	.6									2.6	5.4
ESE	1.0	1.5	.4	.1								3.1	5.0
SE	.4	.4	.9									1.8	5.9
SSE	.7	1.3	.9	.1								3.1	5.5
S	.9	2.6	3.1	.7								7.3	6.9
SSW	.9	2.3	5.4	2.3	.1							11.2	8.4
SW	1.0	2.8	4.1	3.7	.4							12.0	9.3
WSW	1.8	1.3	2.3	1.3	.6	.3						7.6	9.0
W	1.0	.7	1.9	.6								4.3	7.4
WNW	1.2	1.8	1.2	.1								4.3	5.7
NW	.9	.7	2.1									3.7	6.5
NNW	3.1	2.1	.9	.3								6.3	4.6
VARIABLE		.3	3.4	3.4	.3							7.3	11.1
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	10.3	//////
TOTALS	18.1	23.5	31.6	14.7	1.6	.3						100.0	6.6

TOTAL NUMBER OF OBSERVATIONS: 691

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105423 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: MAR HOURS(LST): 1500-1700

DIRECTION (DEGREES)	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
						WIND SPEED IN KNOTS							
N	3.4	1.0	1.8	.1								6.3	4.7
NNE	.9	.7	.9	1.3								3.8	7.8
NE	.7	.7	.7	.7								2.9	7.4
ENE	.3	1.5	.3	.1								2.2	5.2
E	1.0	1.8	1.0									3.8	5.2
ESE	.6	1.8	.6									2.9	5.3
SE	.3	1.8	.3									2.3	5.1
SSE	1.6	1.5	1.3	.1								4.6	5.2
S	.6	3.2	3.2	.6								7.6	7.0
SSW	1.2	3.5	4.0	1.3	.1							10.1	7.2
SW	.9	1.5	4.7	2.6								9.7	9.0
WSW	1.0	1.8	2.8	2.5	.1							8.2	8.5
W	.9	1.8	2.8	.9								6.3	7.3
WNW	.4	1.5	1.9	.1								4.0	6.7
NW	1.6	1.5	.9	.1								4.1	4.8
NNW	2.5	.9	1.8	.4								5.6	5.3
VARIABLE			3.7	2.5	.3							6.5	11.1
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	9.0	//////
TOTALS	17.9	26.3	32.6	13.7	.6							100.0	6.4

TOTAL NUMBER OF OBSERVATIONS: 681

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10542J STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: MAR HOURS(LST): 1800-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.9	.8	.8									3.5	3.9
NNE	.5	1.2	1.4									3.0	6.2
NE	1.5	1.2	.8	.7								4.2	6.0
ENE	1.0	1.7										2.7	3.8
E	1.5	2.9	.7									5.1	4.3
ESE	1.5	1.4										2.9	3.5
SE	.7	.8	.3									1.9	4.0
SSE	2.5	1.2	.7									4.4	3.8
S	2.5	5.7	3.4	.8								12.5	5.7
SSW	1.5	3.5	2.2	.8								8.1	6.3
SW	.5	2.5	2.2	1.0								6.2	7.2
WSW	2.0	.8	1.4	.7								4.9	6.1
W	.3	1.0	2.0	.3	.2							3.9	7.7
WNW	1.2	1.0	1.0	.2		.2						3.5	6.0
NW	1.5	.3	.3									2.2	3.5
NNW	1.2	1.5	.2	.5								3.4	5.2
VARIABLE		.2	1.5	.3								2.0	9.4
CALM	//////////											25.5	//////
TOTALS	22.0	27.9	18.9	5.4	.2	.2						100.0	4.2

TOTAL NUMBER OF OBSERVATIONS: 592

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105423 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 77-78,81-86
MONTH: MAR HOURS(LST): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.3	.9	.4									2.7	3.5
NNE	1.3			.4								1.8	5.0
NE	1.3	2.2										3.6	4.3
ENE	2.2	3.6	.4									6.2	4.1
E	1.8	.9										2.7	3.2
ESE													
SE	1.3	.9										2.2	3.0
SSE	1.3	1.8	.4									3.6	3.9
S	.4	4.0	1.8									6.2	6.1
SSW	2.2	3.6	.9	.4								7.1	4.9
SW	.4	1.8	.9	1.3								4.4	7.9
WSW	1.3	1.3	1.8									4.4	5.7
W	1.3	1.3	1.3	.4								4.4	6.3
WNW													
NW		.9										.9	5.5
NNW	.9	.9	.9	.9								3.6	6.5
VARIABLE			.4									.4	8.0
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	45.8	//////
TOTALS	17.3	24.0	9.3	3.6								100.0	2.8

TOTAL NUMBER OF OBSERVATIONS: 225

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10542J STATION NAME: HAHAU AAF GERMANY PERIOD OF RECORD: 77-86
MONTH: MAR HOURS(LST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	2.1	1.1	1.2	.3								4.8	5.0
NNE	.8	.8	1.1	.4								3.2	6.4
NE	.9	.9	.7	.5	.0							3.0	6.4
ENE	.9	1.8	.4	.1								3.1	4.6
E	1.1	1.5	.6	.0								3.2	4.6
ESE	.7	.9	.2	.0								1.9	4.5
SE	.6	.9	.4	.1								1.9	5.0
SSE	1.6	1.6	1.1	.1								4.4	4.8
S	1.6	3.6	3.0	.6								8.8	6.1
SSW	1.0	2.9	3.5	1.5	.1							8.9	7.4
SW	.7	2.0	4.4	2.1	.1							9.4	8.6
WSW	1.3	1.2	1.9	1.3	.1	.1						5.9	7.9
W	.7	1.0	1.7	.4	.0							3.9	7.1
WNW	.6	1.0	1.1	.2		.0						2.8	6.5
NW	1.1	.8	.9	.0								2.8	5.1
NNW	2.1	1.3	.9	.4								4.7	5.0
VARIABLE	.0	.1	2.5	1.7	.2							4.5	10.8
CALM	22.1											22.1	//////
TOTALS	17.9	23.5	25.5	9.8	.6	.1						100.0	5.1

TOTAL NUMBER OF OBSERVATIONS: 3355

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105420 STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 77-86
MONTH: APR HOURS(LST): 0600-0800

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.4	3.3	1.4	.2								6.3	5.1
NNE	1.5	.5	.2									2.2	3.3
NE	1.3	1.1										2.4	3.6
ENE	1.9	1.1	.2									3.2	3.5
E	1.0	.5	.3									1.7	3.5
ESE	.6											.6	2.3
SE	.8	.5	.3									1.6	4.5
SSE	3.0	.6	.5									4.1	3.4
S	2.5	3.7	1.1	.5								7.8	5.1
SSW	1.0	2.5	3.5									7.0	6.1
SW	.3	1.4	2.9									4.6	6.9
WSW	1.0	.8	1.3									3.0	5.4
W	.6	1.9	1.0	.3								3.8	6.3
WNW	.6	1.7	.3									2.7	4.9
NW		.6	.3									1.0	5.8
NNW	1.4	2.5	2.1	.3								6.3	5.9
VARIABLE			1.0	.2								1.1	9.3
CALM	//////////											40.5	//////
TOTALS	19.0	22.9	16.2	1.4								100.0	3.1

TOTAL NUMBER OF OBSERVATIONS: 630

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10642J STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: APR HOURS(LST): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	2.0	1.4	2.6	.3								6.3	5.9
NNE	1.8	.9	.8	.8								4.3	5.9
NE	.9	2.0	1.1	.3								4.3	5.9
ENE	1.4	2.5	1.7									5.5	5.4
E	1.1	.9	1.2	.2								3.4	5.6
ESE		.3	.9									1.2	8.0
SE	.6	.3	.2									1.1	3.6
SSE	1.1	1.4	.5									2.9	4.5
S	2.0	4.1	1.7	.8								8.6	5.9
SSW	1.2	2.8	4.6	1.4								10.0	7.5
SW		2.6	2.6	1.1	.2							6.4	8.1
WSW	.5	1.2	1.4	.3								3.5	6.2
W	.5	1.4	1.7	.5								4.0	6.8
WNW	.3	1.7	1.7	.3								4.0	6.7
NW	.8	1.5	2.1	.5	.2							5.1	6.9
NNW	2.6	2.5	2.1	.9								8.1	5.9
VARIABLE		.3	4.9	1.1								6.3	9.0
CALM	//////////											15.0	//////
TOTALS	16.9	27.8	31.7	8.3	.3							100.0	5.6

TOTAL NUMBER OF OBSERVATIONS: 652

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10542J STATION NAME: HAHAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: APR HOURS(LST): 1200-1400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.6	3.3	2.7	.5								8.0	6.0
NNE	1.1	1.1	2.0	.5								4.7	6.6
NE	.2	1.1	1.2	.5								3.0	7.1
ENE	1.9	1.1	1.9									4.8	5.4
E	.8	2.0	1.9									4.7	5.8
ESE	.5	.9	.6									2.2	5.4
SE	.3	.8	.3									1.4	5.1
SSE	.9	1.2	.2									2.3	4.5
S	.9	2.2	2.0	.6								5.8	6.5
SSW	.6	2.7	3.9	1.2		.2						8.6	7.8
SW	.3	1.7	2.8	1.4	.3							6.6	8.7
WSW	.8	.9	2.3	1.2	.2							5.5	8.3
W	1.2	1.7	2.5	1.1								6.6	7.0
WNW	.9	1.7	2.0	.6								5.3	6.5
NW	1.1	1.7	1.4	.8	.2							5.1	6.9
NNW	1.7	2.7	2.8	1.2		.2						8.6	7.0
VARIABLE		.3	7.5	3.0	.5							11.2	9.9
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	5.8	//////
TOTALS	15.0	27.1	38.1	12.6	1.1	.3						100.0	6.8

TOTAL NUMBER OF OBSERVATIONS: 641

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105423 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: APR HOURS(LST): 1500-1700

DIRECTION (DEGREES)	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
	WIND SPEED IN KNOTS												
N	2.3	2.6	2.6	1.8								9.2	6.9
NVE	1.4	2.3	3.9	.5								8.1	6.6
NE	.5	1.4	1.9	.8								4.7	7.7
ENE	.5	1.9	1.8									4.2	6.1
E	1.1	1.8	1.3									4.2	5.4
ESE	.5	.5	.5									1.6	5.0
SE		1.1	.8									1.9	6.5
SSE	.3	.6	.5	.2								1.6	6.3
S	.8	2.7	1.6	.2								5.3	5.8
SSW	.2	2.1	2.3	.3		.2						5.0	8.0
SW	1.0	1.6	3.5	2.3								8.4	8.3
WSW	.5	1.9	2.9	1.0								6.3	7.7
W	1.1	2.9	1.9	1.1								7.1	7.0
WNW	.6	2.3	2.9	.8	.2							6.8	7.5
NW	.8	1.0	2.3	.8								4.8	7.8
NNW	1.5	2.1	2.6	1.6								7.9	7.5
VARIABLE		.5	5.6	1.9	.3							8.4	10.1
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	4.7	//////
TOTALS	13.4	29.3	38.8	13.2	.5	.2						100.0	7.0

TOTAL VUMPER OF OBSERVATIONS: 621

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105423 STATION NAME: HAHAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: APR HOURS(LST): 1800-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	2.5	3.6	2.0	.5								8.7	5.5
NNE	.9	2.3	2.7	.5								6.5	6.7
NE	.9	1.8	2.7	.5								6.0	6.9
ENE	1.8	.9	.9									3.6	4.5
E	1.3	1.3	.5									3.1	4.3
ESE	1.4	.9	.4									2.7	3.8
SE	1.8	1.1		.2								3.1	3.8
SSE	1.3	1.6	.7									3.6	4.6
S	1.3	2.0	1.3	.2								4.7	5.5
SSW		3.2	3.2									6.5	7.1
SW	.5	3.2	2.0	.2	.4							6.3	7.2
WSW	1.3	1.1	1.1	.2								3.6	5.6
W	2.0	2.5	2.7	.4								7.6	6.0
WNW	.7	1.6	1.4	.5								4.3	6.7
NW	.9	2.3	.9	.2								4.3	5.5
NNW	.9	1.1	3.2	.7								6.0	7.9
VARIABLE			1.1	.5								1.6	9.6
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	17.9	//////
TOTALS	19.5	30.7	26.9	4.7	.4							100.0	5.0

TOTAL NUMBER OF OBSERVATIONS: 554

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105420 STATION NAME: HAHAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: APR HOURS(LST): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.3	1.7	2.0	.3								5.3	6.1
NNE	1.7	1.7	1.3	.3								5.0	5.7
NE	2.0	1.7	1.3									5.0	4.7
ENE	2.0	3.0	.3									5.3	4.2
E	1.3	.3	.3									2.0	3.3
ESE	2.0	.7	.3									3.0	3.3
SE	1.0	1.7	.7									3.3	4.9
SSE	2.0	1.3	1.3									4.7	5.2
S	1.3	1.3	.7									3.3	4.6
SSW	1.3	.7	1.7									3.7	6.0
SW	1.7	2.7	2.0	.7								7.0	6.0
WSW	.7	2.0	1.0									3.7	5.5
W		1.0	2.0									3.0	7.9
WNW	1.0	.7		.3								2.0	4.5
NW	.7	1.3	1.3									3.3	5.2
NNW	.7	4.0	.3	.7								5.7	5.8
VARIABLE													
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	34.7	//////
TOTALS	20.7	25.7	16.7	2.3								100.0	3.5

TOTAL NUMBER OF OBSERVATIONS: 300

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10642J STATION NAME: HAHAU AAF GERMANY PERIOD OF RECORD: 77-86
MONTH: APR HOURS(LST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.9	2.7	2.2	.6								7.4	5.9
NNE	1.4	1.4	1.8	.4								5.1	6.2
NE	.9	1.5	1.4	.4								4.1	6.3
ENE	1.5	1.6	1.2									4.4	5.0
E	1.1	1.2	1.0	.0								3.3	5.1
ESE	.8	.5	.5									1.8	4.8
SE	.7	.8	.4	.0								1.9	4.7
SSE	1.4	1.1	.5	.0								3.1	4.5
S	1.5	2.8	1.5	.4								6.2	5.7
SSW	.7	2.5	3.4	.6		.1						7.1	7.3
SW	.5	2.1	2.7	1.0	.1							6.5	7.8
WSW	.8	1.3	1.7	.5	.0							4.3	6.9
W	1.3	2.0	1.9	.6								5.5	6.7
WNW	.7	1.7	1.5	.4	.0							4.4	6.6
NW	.7	1.4	1.4	.4	.1							4.0	6.7
NNW	1.6	2.4	2.4	.9		.0						7.3	6.7
VARIABLE		.2	3.7	1.2	.1							5.3	9.7
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	18.3	//////
TOTALS	17.0	27.3	29.2	7.6	.4	.1						100.0	5.3

TOTAL NUMBER OF OBSERVATIONS: 3398

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: MAY HOURS(LST): 0600-0800

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	2.5	2.0	.6	.3								5.5	4.6
NNE	1.4	1.3	.6									3.3	4.4
NE	1.9	1.4	.6									3.9	4.0
ENE	2.5	3.1	1.1									6.7	4.2
E	1.4	.5										1.9	2.8
ESE	.9	.3										1.3	2.6
SE	1.4	.6										2.0	2.6
SSE	3.0	1.7	.6									5.3	3.6
S	2.5	2.3	1.4	.2								6.4	4.7
SSW	1.3	3.0	2.5	.9								7.7	6.5
SW	.9	2.2	1.1									4.1	5.6
WSW	.9	1.3	.3									2.5	4.1
W	1.9	1.6	.3									3.8	3.6
WNW	.8	.6	.2									1.6	3.8
NW	.5	.5	.9									2.0	5.5
NNW	1.6	2.5	.8									4.9	4.5
VARIABLE			.5	.2								.6	9.8
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	36.6	//////
TOTALS	25.4	24.9	11.6	1.6								100.0	2.9

TOTAL NUMBER OF OBSERVATIONS: 639

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105420 STATION NAME: HAHAU AAF GERMANY PERIOD OF RECORD: 77-86
MONTH: MAY HOURS(LST): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	OE 56	TOTAL %	MEAN WIND
N	2.6	2.6	1.7	.5								7.3	5.2
NNE	1.5	1.2	1.2									4.0	4.9
NE	.5	.8	.8	.2								2.1	6.1
ENE	1.4	2.1	1.7	.5								5.6	5.6
E	.9	2.3	.9	.2								4.3	5.3
ESE	1.1	1.5										2.6	3.7
SE	.8	.8	.6									2.1	4.5
SSE	1.1	2.0	.9									4.0	4.7
S	2.4	3.2	1.1									6.7	4.6
SSW	.6	4.3	4.7	.3								9.9	6.9
SW	1.1	3.0	2.6	.6								7.3	6.5
WSW	1.4	2.0	.9	.9	.2							5.3	6.5
W	2.0	2.1	.2	.2								4.4	4.0
WNW	1.2	1.4	.3									2.9	4.1
NW	.6	1.7	.9									3.2	5.3
NNW	1.5	2.3	.9									4.7	4.6
VARIABLE			5.3	.8								6.1	6.8
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	17.4	//////
TOTALS	20.6	33.2	24.7	4.0	.2							100.0	4.7

TOTAL NUMBER OF OBSERVATIONS: 656

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10542J STATION NAME: HAVAU AAF GERMANY PERIOD OF RECORD: 77-86
MONTH: MAY HOURS (LST): 1200-1400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.5	2.1	1.2	.2								5.0	5.2
NNE	2.0	2.4	1.5	.5								6.3	5.4
NE	.6	1.5	1.5	.6								4.2	7.0
ENE	.8	1.1	2.1	.3								4.2	6.8
E	1.1	2.3	1.2									4.5	5.3
ESE	.6	1.8	.3									2.9	4.7
SE	.9	.9	.5									2.3	4.5
SSE	.9	1.4	.8									3.0	4.9
S	2.4	3.0	1.8									7.3	5.1
SSW	2.6	3.2	2.7	.6								9.1	6.0
SW	1.4	2.6	3.8	1.4								9.1	7.4
WSW	.9	2.9	1.8	.3								5.9	5.9
W	2.0	2.4	1.4	.5								6.2	5.3
WNW	1.5	2.3	.5									4.2	4.1
NW	.8	2.0	.8									3.5	4.9
NNW	2.0	1.2	2.1	.2								5.4	5.3
VARIABLE		.6	6.5	1.8								8.9	8.9
CALM	////	////	////	////	////	////	////	////	////	////	////	8.0	////
TOTALS	21.9	33.5	30.4	6.2								100.0	5.5

TOTAL NUMBER OF OBSERVATIONS: 652

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10542J STATION NAME: HAVAU AAF GERMANY PERIOD OF RECORD: 77-86
MONTH: MAY HOURS(LST): 1500-1700

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	2.0	3.1	1.2	.3								6.6	4.8
NNE	.8	2.5	1.4	1.2								5.9	6.9
NE	1.1	1.7	1.1									3.9	5.1
ENE	.8	2.9	.6	.6								4.9	5.8
E	.8	3.4	1.9									6.0	5.5
ESE	.5	.9	1.4									2.9	6.1
SE		1.4	.8									2.2	6.1
SSE	1.7	.8	.5									2.9	3.7
S	1.9	4.2	.8	.3								7.1	5.1
SSW	1.7	2.9	2.9	.3								7.9	5.9
SW	.2	3.9	3.2	1.5	.2							9.0	7.5
WSW	.8	2.8	1.5	.6								5.7	6.3
W	1.7	3.1	.9			.2						5.9	5.1
WNW	1.5	2.2	.2	.3								4.2	4.6
NW	.5	2.6	1.4									4.5	5.7
NNW	1.1	2.8	2.5									6.3	5.7
VARIABLE		.6	4.3	.8								5.7	8.5
CALM	//////////											8.5	//////
TOTALS	17.0	41.7	26.5	6.0	.2	.2						100.0	5.4

TOTAL NUMBER OF OBSERVATIONS: 648

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: MAY HOURS(LST): 1800-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	2.6	3.5	2.0									8.2	4.8
NNE	1.5	2.2	2.4	.7								6.9	6.2
NE	1.3	1.7	1.5									4.5	5.2
ENE	1.5	1.9	1.1	.2								4.6	5.1
E	2.0	4.1	.7									6.9	4.3
ESE	.2	1.3	.4	.2								2.0	5.7
SE	1.3	.9	.6									2.8	3.9
SSE	2.8	1.7	.6									5.0	3.6
S	3.2	2.0	1.1									6.3	4.2
SSW	1.7	2.8	1.1	.6								6.1	5.5
SW	.6	3.0	1.7	.4								5.6	6.5
WSW	1.3	2.2	1.7	.2								5.4	5.5
W	1.3	.7	.4									2.4	4.0
WNW	1.1	.6	.4									2.0	4.1
NW	1.5	.7	.2									2.4	3.4
NNW	1.3	1.5	.7									3.5	4.3
VARIABLE		.4	.4									.7	1.8
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	24.1	//////
TOTALS	25.0	31.2	16.9	2.2								100.0	3.7

TOTAL NUMBER OF OBSERVATIONS: 539

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: MAY HOURS(LST): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	2.1	1.8	.7	.4								4.9	4.7
NNE	2.5	2.1	.4									4.9	3.4
NE	2.1	3.5	1.1									6.7	4.2
ENE	3.2	1.8	.7									5.6	3.9
E	1.4	.7										2.1	3.0
ESE	1.1											1.1	1.7
SE	1.8	.7										2.5	2.6
SSE	1.8	1.4										3.2	2.9
S	2.8	3.5	.7									7.0	4.2
SSW	1.4	3.5										4.9	4.4
SW	1.1	2.5	.7									4.2	4.5
WSW	2.8	1.4	.7	.4								5.3	4.3
W	.4	.7		.4								1.4	5.3
WNW	.7	.4										1.1	3.0
NW			.4									.4	7.0
NNW	1.4	1.1	.7									3.2	4.1
VARIABLE													
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	41.5	//////
TOTALS	26.4	25.0	6.0	1.1								100.0	2.3

TOTAL NUMBER OF OBSERVATIONS: 284

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105423 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: MAY HOURS(LST): ALL

DIRECTION (DEGREES)	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
	WIND SPEED IN KNOTS												
N	2.2	2.6	1.3	.3								6.3	4.9
NNE	1.5	1.9	1.3	.4								5.2	5.6
NE	1.1	1.6	1.1	.1								3.9	5.3
ENE	1.5	2.2	1.3	.3								5.3	5.3
E	1.2	2.3	.9	.0								4.4	4.8
ESE	.8	1.1	.4	.0								2.2	4.6
SE	.9	.9	.4									2.3	4.2
SSE	1.8	1.5	.6									3.9	3.9
S	2.5	3.0	1.2	.1								6.8	4.7
SSW	1.5	3.3	2.6	.5								7.9	6.1
SW	.8	2.9	2.4	.7	.0							6.8	6.8
WSW	1.2	2.2	1.2	.4	.0							5.0	5.7
W	1.7	1.9	.6	.1		.0						4.3	4.6
WNW	1.2	1.3	.3	.1								2.9	4.2
NW	.7	1.4	.8									2.9	5.1
NNW	1.5	2.0	1.4	.0								4.9	4.9
VARIABLE		.3	3.2	.7								4.2	8.8
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	20.6	//////
TOTALS	22.2	32.3	20.9	3.8	.1	.0						100.0	4.3

TOTAL NUMBER OF OBSERVATIONS: 3428

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106423 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: JUN HOURS(LST): 0600-0800

DIRECTION (DEGREES)	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
	WIND SPEED IN KNOTS												
N	2.9	1.1	.5	.2								4.6	3.7
NNE	2.3	.9										3.2	3.0
NE	.8	.8										1.5	3.7
ENE	3.1	.3										3.4	2.2
E	1.1	.8										1.8	3.2
ESE	1.4											1.4	2.0
SE	.9	.2										1.1	2.4
SSE	2.6	.5	.3									3.4	2.9
S	3.7	2.6	.8									7.0	3.9
SSW	1.7	2.6	2.0	.5								6.7	5.6
SW	1.4	4.9	2.1	.6								9.0	5.7
WSW	.9	1.4	.6									2.9	4.9
W	2.4	1.2	.5									4.1	3.6
WNW	.8	1.2	.8									2.7	4.9
NW	1.4	.8	.3									2.4	3.7
NNW	3.2	1.5	.2									4.9	3.1
VARIABLE			.2	.3								.5	11.0
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	39.4	//////
TOTALS	30.4	20.6	8.1	1.5								100.0	2.5

TOTAL NUMBER OF OBSERVATIONS: 655

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10642J STATION NAME: HAHAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: JUN HOURS(LST): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	2.9	2.3	1.1									6.3	4.4
NNE	1.4	1.5	.3									3.2	4.1
NE	.9	1.2	.5									2.6	4.6
ENE	.3	1.2										1.5	3.9
E	1.5	2.8	.5									4.8	4.1
ESE		.6	.2									.8	5.4
SE	.3	.9	.2									1.4	4.8
SSE	1.5	.9	.3									2.8	3.2
S	2.9	4.0	1.7									8.6	4.6
SSW	1.7	5.2	4.1	.6								11.7	6.3
SW	2.1	3.7	3.5	1.1								10.4	6.4
WSW	2.3	2.9	2.1	.2								7.5	5.3
W	1.5	1.7	.5									3.7	4.1
WNW	1.2	2.5	1.4									5.1	5.4
NW	.8	2.0	.3									3.1	4.8
NNW	3.7	2.8	.6									7.1	3.6
VARIABLE			3.4	.3								3.7	8.7
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	16.0	//////
TOTALS	25.2	36.2	20.6	2.1								100.0	4.3

TOTAL NUMBER OF OBSERVATIONS: 652

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10542J STATION NAME: HAVAU AAF GERMANY PERIOD OF RECORD: 77-86
MONTH: JUN HOURS(LST): 1200-1400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	2.8	2.8	1.1									6.6	4.2
NNE	2.5	2.0	.5									5.0	3.9
NE		2.0	.3									2.3	5.4
ENE	.6	2.0	.2									2.8	4.6
E		1.7	.3									2.0	5.7
ESE	.5	1.4	.3									2.1	4.9
SE	.8	.3	.2									1.2	3.1
SSE	.8	.9	.3									2.0	4.2
S	1.4	3.1	2.1	.2								6.7	5.6
SSW	1.5	4.9	3.2	.8								10.4	6.3
SW	1.1	2.4	3.2	2.0								8.7	7.8
WSW	1.8	5.0	3.2	.6								10.7	5.9
W	1.5	4.6	2.8	.3								9.2	5.7
WNW	1.2	2.8	1.4									5.4	5.3
NW	.9	2.0	.6									3.5	4.8
NNW	2.9	2.8	1.2									6.9	4.4
VARIABLE		.2	7.3	.5								8.0	8.4
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	6.6	//////
TOTALS	20.3	40.7	28.1	4.3								100.0	5.3

TOTAL NUMBER OF OBSERVATIONS: 654

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10642J STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: JUN HOURS(LST): 1500-1700

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	3.9	2.8	1.6									8.3	4.2
NNE	1.1	1.7	1.1									3.9	4.7
NE	.8	.9	.9									2.7	5.2
ENE	.5	.8	.2									1.4	3.8
E	.5	2.7	.5									3.6	4.8
ESE	.3	1.1	.3									1.7	5.0
SE	.9	.9										1.9	3.8
SSE	.9	.8	.2									1.9	3.8
S	1.7	3.8	.6									6.1	4.6
SSW	.8	3.1	2.7	.6	.2							7.4	7.0
SW	1.1	1.9	4.5	1.7								9.2	8.0
WSW	2.2	4.5	2.7	.2								9.6	5.5
W	1.4	4.4	4.1	.2								10.0	5.9
WNW	1.7	3.6	2.2	.3								7.8	5.5
NW	1.4	2.7	1.7									5.8	5.2
NNW	2.2	2.8	2.4	.2								7.5	5.3
VARIABLE		.3	3.0	.9	.2							4.4	9.6
CALM	////	////	////	////	////	////	////	////	////	////	////	6.7	////
TOTALS	21.5	38.9	28.5	4.1	.3							100.0	5.3

TOTAL NUMBER OF OBSERVATIONS: 638

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10642D STATION NAME: HAHAU AAF GERMANY PERIOD OF RECORD: 77-86
MONTH: JUN HOURS(LST): 1800-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	3.9	2.9	1.8									8.6	4.2
NNE	2.7	.7	.9									4.3	3.8
NE	1.1	1.3	.9									3.2	5.0
ENE	1.3	.9										2.1	3.1
E	.9	2.3	.2									3.4	3.8
ESE	.9	.5										1.4	2.9
SE	1.1	.9										2.0	3.4
SSE	2.0	1.3										3.2	3.1
S	2.3	.9	.5									3.8	3.5
SSW	.9	2.9	2.1									5.9	5.7
SW	2.0	2.9	4.3	.2								9.3	6.0
WSW	3.2	3.6	1.8	.2								8.8	4.7
W	2.3	2.7	1.6									6.6	4.5
WNW	1.4	2.3	.4									4.1	4.5
NW	1.8	2.1	1.1									5.0	4.7
NNW	1.8	2.1	1.1									5.0	4.7
VARIABLE			.7	.2								.9	10.2
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	22.4	//////
TOTALS	29.5	30.2	17.4	.5								100.0	3.6

TOTAL NUMBER OF OBSERVATIONS: 559

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10542J STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: JUN HOURS(LST): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	2.1	.3										2.4	2.3
NNE	1.8	.9	.3									3.0	3.4
NE	3.0	.3										3.3	2.5
ENE	.9	.6										1.5	3.2
E	.3											.3	2.0
ESE	.3	.3										.6	3.5
SE													
SSE	1.8	.9										2.7	3.2
S	5.1	1.5	.3									6.9	3.0
SSW	1.2	2.7	.3	.3								4.5	4.8
SW	1.5	2.7	.9									5.1	4.4
WSW	.6	1.2	.3									2.1	4.4
W	.9	2.1	.3									3.3	4.6
WNW	1.5	1.5	.3									3.3	3.7
NW	2.4	.6										3.0	2.1
NNW	1.2		.3									1.5	3.2
VARIABLE			.3	.3								.6	10.5
CALM	//////////											56.1	//////
TOTALS	24.5	15.5	3.3	.6								100.0	1.6

TOTAL NUMBER OF OBSERVATIONS: 335

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10642J STATION NAME: HAHAU AAF GERMANY PERIOD OF RECORD: 77-86
MONTH: JUN HOURS(LST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	3.1	2.1	1.1	.0								6.4	4.1
NNE	2.0	1.3	.5									3.8	3.9
NE	.9	1.1	.5									2.5	4.6
ENE	1.1	1.0	.1									2.2	3.4
E	.7	1.8	.3									2.8	4.3
ESE	.5	.7	.1									1.4	4.1
SE	.7	.6	.1									1.3	3.6
SSE	1.6	.9	.2									2.6	3.3
S	2.7	2.8	1.1	.0								6.6	4.4
SSW	1.3	3.7	2.6	.5	.0							8.1	6.2
SW	1.5	3.1	3.3	1.0								8.9	6.6
WSW	1.9	3.3	1.9	.2								7.3	5.3
W	1.7	2.8	1.7	.1								6.4	5.1
WNW	1.3	2.4	1.1	.1								4.9	5.1
NW	1.3	1.8	.7									3.8	4.6
NNW	2.5	2.2	1.0	.0								5.8	4.3
VARIABLE		.1	2.7	.4	.0							3.3	8.9
CALM	////	////	////	////	////	////	////	////	////	////	////	21.8	////
TOTALS	25.2	31.7	18.9	2.4	.1							100.0	4.0

TOTAL NUMBER OF OBSERVATIONS: 3493

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: JUL HOURS(LST): 0600-0800

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	2.5	.8	.7									3.9	3.3
NNE	.7	.5	.2									1.3	4.1
NE	1.6	.3										2.0	2.8
ENE	2.5	1.0										3.5	2.8
E	1.3	.3										1.6	2.3
ESE	.2											.2	1.0
SE	1.2	.2										1.3	1.9
SSE	1.0	.5										1.5	2.8
S	4.3	2.0										6.2	3.0
SSW	2.5	3.0	.7									6.2	4.0
SW	1.3	3.5	1.0	.2								5.9	5.1
WSW	2.0	2.6	.5									5.1	4.0
W	1.8	1.2	.2									3.1	3.3
WNW	.7	1.0										1.6	3.2
NW	1.0	.7	.3									2.0	3.8
NNW	3.3	1.2	.2									4.6	3.0
VARIABLE													
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	49.8	//////
TOTALS	27.8	18.6	3.6	.2								100.0	1.7

TOTAL NUMBER OF OBSERVATIONS: 638

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: JUL HOURS(LST): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	2.4	1.1	1.3									4.7	4.1
NNE	1.7	.9	.3									3.0	3.7
NE	1.1	.9										2.0	3.4
ENE	1.7	2.2	.2									4.1	3.7
E	.5	1.9	.2									2.7	4.5
ESE	2.0	.3	.3									2.7	3.1
SE	.9	.3	.2									1.4	3.1
SSE	1.4	1.6	.2									3.1	3.6
S	2.5	1.9	.6									5.0	3.9
SSW	2.7	4.1	2.0	.5								9.3	5.5
SW	2.0	5.7	2.2	.5								10.4	5.7
WSW	2.0	4.4	1.4	.3								8.2	5.1
W	3.8	2.8	.8									7.4	3.7
WNW	2.0	2.2	.9									5.2	4.0
NW	2.2	1.6	.9									4.7	4.4
NNW	2.8	2.8	.6									6.3	3.9
VARIABLE		.2	2.0	.2								2.4	7.7
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	17.6	//////
TOTALS	32.0	34.9	14.1	1.4								100.0	3.7

TOTAL NUMBER OF OBSERVATIONS: 637

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: JUL HOURS(LST): 1200-1400

DIRECTION (DEGREES)	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
						WIND SPEED IN KNOTS							
N	2.4	1.6	.8									4.7	4.2
NNE	2.2	1.7	.5									4.4	4.0
NE	.6	1.4	.2									2.2	4.4
ENE	1.4	1.9										3.3	3.9
E	.8	1.1	1.1									3.0	5.6
ESE	.8	.9	.3									2.0	4.3
SE	.6	.8	.3									1.7	4.6
SSE	1.1	1.4	.5									3.0	4.4
S	1.3	3.5	1.1									5.8	5.2
SSW	.9	2.0	2.8	.2								6.0	6.2
SW	1.9	4.4	3.8	.8								10.8	6.2
WSW	3.1	4.7	2.4	.9								11.2	5.5
W	2.8	4.9	1.3	.2								9.1	4.8
WNW	3.1	3.9	1.6									8.6	4.5
NW	.5	2.2	.6	.3								3.6	5.7
NNW	3.0	3.8	1.1									7.9	4.3
VARIABLE		.2	3.5	.6								4.2	8.5
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	8.3	//////
TOTALS	26.6	40.4	21.7	3.0								100.0	4.8

TOTAL NUMBER OF OBSERVATIONS: 636

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10642J STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 77-86
MONTH: JUL HOURS(LST): 1500-1700

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	3.6	3.8	.5									7.9	3.6
NNE	1.9	2.0	.2									4.1	3.8
NE	1.3	1.3	.3									2.8	4.0
ENE	1.3	1.1	.5									2.8	3.8
E	1.1	2.2	.5									3.8	4.3
ESE	.8	1.3	.6									2.7	4.8
SE	.6	.8	.5									1.9	4.2
SSE	.8	1.3	.2									2.2	4.4
S	2.2	3.0	.6									5.8	4.3
SSW	1.4	1.7	1.4	.6								5.2	6.2
SW	1.6	3.9	2.5	1.3								9.3	6.4
WSW	3.0	3.0	1.9	.5								8.3	5.2
W	2.0	6.1	2.0	.6								10.8	5.7
WNW	2.4	3.1	1.9	.3								7.7	5.2
NW	2.2	3.0	.8									6.0	4.4
NNW	3.0	4.1	1.3									8.3	4.5
VARIABLE		.3	2.7	.5								3.5	8.2
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	6.9	//////
TOTALS	29.1	42.0	18.2	3.8								100.0	4.7

TOTAL NUMBER OF OBSERVATIONS: 636

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: JUL HOURS(LST): 1800-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	4.5	3.0	1.0									8.5	3.7
NNE	2.2	.3										2.5	2.4
NE	1.0	.7										1.7	2.9
ENE	1.5	.2										1.7	2.4
E	2.2	1.3	.3									3.8	3.3
ESE	1.0	1.5	.5									3.0	4.3
SE	.2	.5										.7	5.0
SSE	1.0	.7	.3									2.0	4.1
S	2.5	2.2	.2									4.8	3.2
SSW	1.0	2.0	.8									3.8	5.0
SW	1.7	2.8	1.5									6.0	5.3
WSW	2.5	2.5	1.2	.2								6.4	4.6
W	4.2	3.0	1.0	.3								8.5	4.3
WNW	3.5	2.5	.8									6.9	3.9
NW	2.5	1.8	.5	.2								5.0	3.9
NNW	1.7	1.8	.7									4.2	4.2
VARIABLE			.3									.3	8.0
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	30.1	//////
TOTALS	33.1	26.9	9.2	.7								100.0	2.8

TOTAL NUMBER OF OBSERVATIONS: 598

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: JUL HOURS(LST): 2100-2300

DIRECTION (DEGREES)	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
						WIND SPEED IN KNOTS							
N	.8	.3										1.1	2.8
NNE	.5	.3										.8	2.3
NE	1.6		.3									1.9	2.4
ENE	1.6	1.3										3.0	3.3
E	.3											.3	1.0
ESE	.3											.3	1.0
SE	.5											.5	2.0
SSE	.8	.3										1.1	2.0
S	1.3	1.6										3.0	3.5
SSW	2.7	1.9	.8									5.4	4.4
SW	.8	1.9	.3									3.0	4.4
WSW	4.0	1.9										5.9	3.0
W	2.2	3.0	.3									5.4	3.9
WNW	1.6	.5	.3									2.4	3.1
NW	2.2											2.2	1.8
NNW	1.3	.8	.3									2.4	3.8
VARIABLE				.3								.3	15.0
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	61.2	//////
TOTALS	22.5	13.7	2.2	.3								100.0	1.3

TOTAL NUMBER OF OBSERVATIONS: 371

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105423 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: JUL HOURS(LST): ALL

DIRECTION (DEGREES)	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
					WIND SPEED IN KNOTS								
N	2.8	1.9	.7									5.4	3.8
NNE	1.6	1.0	.2									2.8	3.6
NE	1.2	.8	.1									2.1	3.4
ENE	1.7	1.3	.1									3.1	3.3
E	1.1	1.2	.4									2.7	4.1
ESE	.9	.7	.3									1.9	4.0
SE	.7	.5	.2									1.3	3.7
SSE	1.0	1.0	.2									2.2	3.8
S	2.4	2.4	.5									5.3	3.9
SSW	1.8	2.5	1.5	.2								6.1	5.3
SW	1.6	3.8	2.0	.5								7.9	5.8
WSW	2.7	3.3	1.3	.3								7.7	4.9
W	2.8	3.6	1.0	.2								7.6	4.5
WNW	2.3	2.4	1.0	.1								5.7	4.3
NW	1.7	1.7	.6	.1								4.0	4.3
NNW	2.6	2.6	.7									5.9	4.0
VARIABLE		.1	1.5	.3								1.9	8.3
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	26.4	//////
TOTALS	28.9	30.7	12.3	1.7								100.0	3.3

TOTAL NUMBER OF OBSERVATIONS: 3486

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 76-85
MONTH: AUG HOURS(LST): 0600-0800

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	2.3	1.1	.1									3.6	3.1
NNE	.5											.6	2.0
NE	.7	.4										1.1	2.6
ENE	1.6	.7	.1									2.4	3.1
E	1.1	.3										1.4	2.4
ESE	.7	.1										.9	2.0
SE	.9	.1										1.0	2.4
SSE	1.3	.6										1.9	2.7
S	3.3	1.0										4.3	2.8
SSW	1.6	2.6	.7	.3								5.2	4.7
SW	.9	1.4	.7									3.0	5.0
WSW	1.3	.4	.1									1.9	3.4
W	2.0	.6	.4	.1								3.2	3.6
WNW	1.1	1.1	.1									2.4	3.8
NW	.7	.3	.1									1.1	3.5
NNW	2.2	1.9	.1									4.2	3.4
VARIABLE			.1									.1	8.0
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	61.6	//////
TOTALS	22.3	12.8	2.9	.4								100.0	1.3

TOTAL NUMBER OF OBSERVATIONS: 696

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10642J STATION NAME: HAHAU AAF GERMANY PERIOD OF RECORD: 76-85
MONTH: AUG HOURS(LST): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.6	1.6	.7									3.8	4.3
NNE	1.1	1.3	.4									2.8	4.3
NE	1.7	.6	.3	.1								2.7	3.7
ENE	1.4	1.7										3.1	3.6
E	1.6	1.8	.3									3.7	3.8
ESE	1.6	.9	.3									2.7	3.4
SE	.6	1.3	.3									2.1	4.5
SSE	1.1	1.8	.1									3.1	3.8
S	2.3	3.7	.6									6.5	4.2
SSW	2.6	4.0	1.4	.1								8.1	4.9
SW	2.3	2.7	2.4	.1								7.5	5.4
WSW	2.1	2.4	2.1	.1								6.8	5.2
W	1.4	1.6	2.0	.1								5.1	6.0
WNW	1.7	.6	.1									2.4	3.1
NW	.3	1.8	1.1									3.3	5.7
NNW	2.4	4.3	.6									7.2	4.3
VARIABLE			2.6	.4								3.0	8.8
CALM	////	////	////	////	////	////	////	////	////	////	////	25.9	////
TOTALS	25.7	32.0	15.3	1.1								100.0	3.5

TOTAL NUMBER OF OBSERVATIONS: 704

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 76-85
MONTH: AUG HOURS(LST): 1200-1400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.8	2.4	1.0									5.2	4.6
NNE	1.3	.8	.6	.1								2.8	5.0
NE	.7	.8	.4									2.0	5.1
ENE	1.8	2.4	.6									4.8	4.3
E	1.8	3.0	.3									5.1	4.1
ESE	.7	2.1	.8									3.7	5.3
SE	.8	.7	.7									2.3	4.9
SSE	1.4	1.7	.7									3.8	4.6
S	2.0	2.4	1.0									5.4	4.6
SSW	.7	3.3	3.4	.6								7.9	6.7
SW	1.1	3.4	4.8	.8								10.2	7.0
WSW	2.1	3.1	4.2	.4								9.9	6.3
W	2.4	3.3	1.6	.3								7.5	5.3
WNW	1.3	1.4	1.0									3.7	4.9
NW	1.3	2.0	1.3	.1								4.7	5.2
NNW	2.3	2.4	.8									5.5	4.4
VARIABLE		.1	5.1	.7								5.9	8.8
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	9.6	//////
TOTALS	23.6	35.4	28.3	3.1								100.0	5.1

TOTAL NUMBER OF OBSERVATIONS: 737

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10642J STATION NAME: HAHAU AAF GERMANY

PERIOD OF RECORD: 76-85
MONTH: AUG HOURS(LST): 1500-1700

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.7	1.6	1.6	.3								5.2	5.5
NNE	.7	2.2	1.3									4.2	5.5
NE	1.1	.6	1.0									2.7	5.1
ENE	.6	1.1	.6									2.3	5.4
E	2.0	4.0	.4									6.5	4.4
ESE	1.7	2.2	.3									4.2	3.9
SE	.7	2.0	.4									3.2	4.5
SSE	1.7	1.7	.1									3.6	3.9
S	2.2	2.4	.6									5.2	4.2
SSW	.3	2.9	2.0	.1								5.3	6.4
SW	.9	3.4	3.6	1.1								9.1	7.2
WSW	2.4	4.6	3.7	.4								11.2	5.8
W	2.6	4.6	1.7	.1								9.1	5.0
WNW	1.9	2.3	.9	.1								5.2	4.8
NW	1.7	1.1	.4									3.3	4.1
NNW	2.0	2.2	1.1									5.3	4.4
VARIABLE		.3	3.2	.4								3.9	8.9
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	10.8	//////
TOTALS	24.3	39.2	23.0	2.7								100.0	4.8

TOTAL NUMBER OF OBSERVATIONS: 696

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 76-85
MONTH: AUG HOURS(LST): 1800-2000

DIRECTION (DEGREES)	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
	WIND SPEED IN KNOTS												
N	2.0	1.8	1.5									5.4	4.7
NNE	1.5	1.4	.9									3.8	4.7
NE	1.5	1.4	.9									3.8	4.8
ENE	2.0	1.5	.2									3.7	3.8
E	2.3	1.5	.2									4.0	3.5
ESE	2.0	.3	.2									2.5	2.8
SE	.9	.3										1.2	2.9
SSE	1.1	.5	.3									1.8	3.8
S	2.9	1.5	.3									4.8	3.5
SSW	.8	2.1	1.1									4.0	5.4
SW	1.3	2.9	2.1	.6								7.5	6.0
WSW	2.1	2.9	.9									6.0	4.7
W	2.3	1.1	.3	.5								4.1	4.4
WNW	2.3	2.1	1.2									5.7	4.5
NW	1.2	.8	.6									2.6	4.5
NNW	1.2	1.8	.6									3.7	4.4
VARIABLE			.5	.3								.8	10.2
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	34.7	//////
TOTALS	28.1	24.1	11.8	1.4								100.0	3.0

TOTAL NUMBER OF OBSERVATIONS: 652

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105423 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 76-85
MONTH: AUG HOURS(LST): 2100-2300

DIRECTION (DEGREES)	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
	WIND SPEED IN KNOTS												
N	1.6	.3	.3									2.1	3.0
NNE	1.3	.5										1.8	2.4
NE	1.1	1.3										2.4	3.4
ENE	4.7	1.8										6.6	2.8
E	.8	.5										1.3	3.8
ESE	.3											.3	1.0
SE	.8											.8	2.3
SSE	1.6	.8										2.4	3.0
S	1.5	.5										2.1	3.0
SSW	1.6	1.6	1.1									4.2	4.7
SW	.8	.8	1.1									2.6	5.3
WSW	1.1	1.3	.3									2.6	3.9
W	1.3	.8										2.1	3.3
WNW	.8	1.8	.5									3.2	5.1
NW	.5											.5	2.5
NNW	1.6	.5										2.1	3.0
VARIABLE													
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	62.8	//////
TOTALS	21.4	12.7	3.2									100.0	1.3

TOTAL NUMBER OF OBSERVATIONS: [illegible]79

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10642J STATION NAME: HAVAU AAF GERMANY PERIOD OF RECORD: 76-85
MONTH: AUG HOURS(LST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.9	1.6	.9	.1								4.4	4.5
NNE	1.1	1.1	.6	.0								2.7	4.6
NE	1.1	.8	.5	.0								2.5	4.4
ENE	1.8	1.5	.3									3.6	3.8
E	1.7	2.0	.2									3.9	3.9
ESE	1.2	1.0	.3									2.5	3.8
SE	.8	.8	.3									1.9	4.1
SSE	1.4	1.2	.2									2.8	3.8
S	2.4	2.1	.4									4.9	3.9
SSW	1.2	2.8	1.7	.2								5.9	5.6
SW	1.3	2.6	2.6	.5								7.0	6.3
WSW	1.9	2.6	2.1	.2								6.7	5.5
W	2.1	2.1	1.1	.2								5.5	5.0
WNW	1.5	1.5	.7	.0								3.8	4.5
NW	1.0	1.1	.7	.0								2.8	4.8
NNW	2.0	2.3	.6									4.9	4.1
VARIABLE		.1	2.1	.3								2.5	8.9
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	31.8	//////
TOTALS	24.4	27.2	15.0	1.6								100.0	3.3

TOTAL NUMBER OF OBSERVATIONS: 3834

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10542 STATION NAME: HAHAU AAF GERMANY PERIOD OF RECORD: 76-85
MONTH: SEP HOURS(LST): 0600-0800

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.2	.9										2.1	3.4
NNE	.7											.7	1.6
NE	.7											.7	1.6
ENE	1.5	.1										1.6	2.1
E	1.0	.4										1.5	2.7
ESE	.6	.3										.9	2.8
SE	.6	.3										.9	3.2
SSE	2.2	.9	.1									3.3	3.1
S	4.0	2.7	.3									7.0	3.6
SSW	2.2	3.4	2.4		.1							8.2	5.3
SW	.6	2.1	1.3	.3								4.3	6.2
WSW	.9	.7	.1									1.8	3.1
W	.4	.9	.6	.1								2.1	6.3
WNW	.3	.3	.1									.7	4.8
NW	.3											.3	1.5
NNW	.4	.9		.1								1.5	4.6
VARIABLE													
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	62.4	//////
TOTALS	17.8	14.0	5.1	.6	.1							100.0	1.6

TOTAL NUMBER OF OBSERVATIONS: 673

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105420 STATION NAME: HAHAU AAF GERMANY PERIOD OF RECORD: 76-85
MONTH: SEP HOURS(LST): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.7	1.6	.4									3.8	4.0
NNE	1.2	.3										1.5	2.6
NE	.7	.3										1.0	3.1
ENE	1.5	1.0	.1									2.6	3.3
E	1.6	.7										2.3	2.8
ESE	1.0	.1	.4									1.6	3.6
SE	1.0	.1										1.2	2.4
SSE	3.8	.9	.7									5.4	3.5
S	3.3	4.2	1.2									8.7	4.2
SSW	2.2	5.2	2.9	.9								11.2	5.9
SW	1.9	3.2	3.3	.4	.3	.1						9.3	6.9
WSW	1.2	1.9	1.9	.4	.1							5.5	6.7
W	.6	.6	1.7	.1								3.1	6.9
WNW	.7	.6	.3	.1								1.7	4.7
NW	.7	.7	.1									1.6	3.5
NNW	1.3	1.2	1.2									3.6	4.8
VARIABLE		.1	3.6	.3								4.1	8.1
CALM	////	////	////	////	////	////	////	////	////	////	////	31.7	////
TOTALS	24.5	22.9	18.0	2.3	.4	.1						100.0	3.5

TOTAL NUMBER OF OBSERVATIONS: 607

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10542 STATION NAME: HAHN AAF GERMANY

PERIOD OF RECORD: 76-85
MONTH: SEP HOURS(LST): 1200-1400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.1	.9	1.4									3.3	5.1
NNE	.5	.3	.3									1.1	4.4
NE	.5	.9	.2									1.5	3.9
ENE	.8	.6	.2									1.5	3.6
E	1.7	1.1	.3									3.0	3.8
ESE	1.4	.9	.6									2.9	4.1
SE	1.1	.9	.2									2.1	3.9
SSE	1.2	1.8	.5									3.5	4.4
S	2.9	4.1	1.8	.3								9.0	4.9
SSW	2.5	3.6	6.2	.9								13.3	6.7
SW	.8	3.5	5.7	1.2	.3							11.4	7.9
WSW	3.2	3.3	3.3	.5	.2							10.4	5.7
W	1.2	2.1	1.7	.2								5.1	5.9
WNW	1.2	2.0	.6									3.8	4.4
NW	.9	1.2	.3									2.4	4.1
NNW	2.3	2.1	1.2									5.6	4.7
VARIABLE			4.4	1.2								5.6	9.2
CALM	////	////	////	////	////	////	////	////	////	////	////	14.6	////
TOTALS	22.9	29.2	28.6	4.2	.5							100.0	5.0

TOTAL NUMBER OF OBSERVATIONS: 664

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 76-85
MONTH: SEP HOURS(LST): 1500-1700

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.1	2.2	.3	.2								3.8	4.5
NNE	1.0	1.6	.3									2.9	4.0
NE	.3	.5	.3									1.1	4.6
ENE	.6		.2									.8	3.0
E	1.8	1.9	.6									4.3	4.1
ESE	1.8	1.3	.3									3.3	3.6
SE	1.1	1.3										2.4	3.7
SSE	2.2	2.4										4.6	3.7
S	2.2	3.8	2.4									8.5	4.9
SSW	1.0	3.8	3.2									8.0	6.2
SW	1.0	4.1	4.0	1.6	.3							11.0	7.7
WSW	1.9	3.2	2.7	.8								8.6	6.2
W	3.2	3.7	2.4	.6								9.9	5.4
WNW	2.2	1.9	.8									4.9	4.5
NW	1.4	1.0	.3	.3								3.0	4.8
NNW	1.5	1.6	1.0	.2								4.3	4.7
VARIABLE			1.9	.2								2.1	6.6
CALM	////	////	////	////	////	////	////	////	////	////	////	16.4	////
TOTALS	24.4	34.3	20.7	3.8	.3							100.0	4.5

TOTAL NUMBER OF OBSERVATIONS: 627

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10642J STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 76-85
MONTH: SEP HOURS(LST): 1800-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.3	.7	.3									2.3	3.5
NNE	.3	.3										.7	2.5
NE	.5	.2										.7	2.8
ENE	1.0	.2										1.2	2.9
E	1.8	.2										2.0	2.3
ESE	.8	.2										1.0	2.7
SE	1.2	.7										1.8	2.8
SSE	2.0	.8	.2									3.0	3.4
S	2.6	2.5	.5									5.6	3.6
SSW	1.6	3.3	2.1									7.1	5.3
SW	1.2	3.1	2.1									6.4	5.7
WSW	1.6	1.5	1.6	.2								4.9	5.4
W	2.1	2.1	.5									4.8	4.0
WNW	1.6	1.5	.8									4.0	4.8
NW	.8	.5		.2								1.5	4.1
NNW	.7	.5	.2									1.3	4.3
VARIABLE		.2	.2									.3	8.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	51.6	//////
TOTALS	21.3	18.3	8.6	.3								100.0	2.1

TOTAL NUMBER OF OBSERVATIONS: 607

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10642J STATION NAME: HAHAU AAF GERMANY

PERIOD OF RECORD: 76-85
MONTH: SEP HOURS(LST): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.3		.3									.5	5.5
NNE		.3										.3	5.0
NE	.5											.5	1.5
ENE	2.2	.3										2.5	2.6
E	1.1	.3										1.4	2.4
ESE	.3											.3	2.0
SE	1.1											1.1	2.5
SSE	2.2	1.1	.3									3.6	3.3
S	3.8	2.7	.3									6.8	3.4
SSW	1.9	2.2	3.0									7.1	5.6
SW	.5	.8	1.6	.3								3.3	6.6
WSW	1.6	.5	.8									3.0	4.2
W	1.4	1.4	.5									3.3	3.9
WNW	.5	1.6										2.2	4.1
NW	1.1											1.1	2.3
NNW	.5	.3										.8	3.7
VARIABLE													
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	62.3	//////
TOTALS	19.1	11.5	6.8	.3								100.0	1.5

TOTAL NUMBER OF OBSERVATIONS: 366

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105420 STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 76-85
MONTH: SEP HOURS(LST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.2	1.1	.5	.0								2.8	4.3
NNE	.7	.5	.1									1.2	3.4
NE	.6	.3	.1									1.0	3.3
ENE	1.2	.4	.1									1.7	3.0
E	1.5	.8	.2									2.5	3.3
ESE	1.0	.5	.2									1.8	3.5
SE	1.0	.6	.0									1.6	3.3
SSE	2.3	1.3	.3									3.9	3.6
S	3.1	3.4	1.1	.1								7.7	4.2
SSW	1.9	3.7	3.3	.3	.0							9.4	5.9
SW	1.0	3.0	3.1	.7	.2	.0						8.0	7.1
WSW	1.7	2.0	1.8	.3	.1							5.9	5.7
W	1.5	1.8	1.3	.2								4.7	5.4
WNW	1.1	1.3	.5	.0								2.9	4.5
NW	.9	.6	.1	.1								1.7	4.0
NNW	1.2	1.2	.6	.1								3.0	4.6
VARIABLE		.1	1.8	.3								2.2	8.7
CALM	////	////	////	////	////	////	////	////	////	////	////	38.1	////
TOTALS	21.9	22.4	15.3	2.1	.2	.0						100.0	3.2

TOTAL NUMBER OF OBSERVATIONS: 3624

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105420 STATION NAME: HAHAU AAF GERMANY PERIOD OF RECORD: 76-85
MONTH: OCT HOURS(LST): 0600-0800

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.2	.4	1.5	.2								3.3	5.7
NNE	.4											.4	1.5
NE	.4	.6	.2									1.2	4.3
ENE	2.1	.8	.2									3.1	3.3
E	3.1	.8										4.0	2.7
ESE	1.0											1.0	2.2
SE	1.9	.6										2.5	3.3
SSE	1.7	1.5	.2									3.3	3.4
S	3.1	1.9	2.1									7.1	4.6
SSW	1.2	2.3	3.3	.2								7.1	6.4
SW	1.0	2.3	1.7	.8								5.8	6.7
WSW	.8	.4										1.2	3.5
W	.8		.2									1.0	3.0
WNW	.2		.2									.4	4.5
NW	.6		.2									.8	3.0
NNW	1.0	.6	.2									1.9	3.4
VARIABLE													
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	55.6	//////
TOTALS	20.8	12.3	10.0	1.2								100.0	2.0

TOTAL NUMBER OF OBSERVATIONS: 480

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10542J STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 76-85
MONTH: OCT HOURS(LST): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.8	1.5	.6	.2								3.0	5.2
NNE	.3	.5	.2									.9	4.5
NE	.9	.9	.3									2.1	4.3
ENE	2.0	1.2	.8	.2								4.1	4.3
E	2.9	1.7	.2									3.8	3.4
ESE	1.2	2.3	.5									3.9	4.1
SE	1.5	.8	.2									2.4	3.4
SSE	3.3	3.8	.8									7.9	3.9
S	3.8	4.5	1.2	.2								9.7	4.4
SSW	2.3	4.5	3.5	1.1								11.4	6.2
SW	.5	1.7	5.6	1.2	.3							9.4	8.8
WSW	.5	.5	.6	.2								1.7	6.8
W	1.1	.6	.5									2.1	4.1
WNW	.9	.3	.2									1.4	3.3
NW	.6		.2									.8	2.8
NNW	1.5	1.1	1.2									3.8	4.5
VARIABLE			1.4	.3								1.7	9.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	30.0	//////
TOTALS	23.2	25.8	17.6	3.2	.3							100.0	3.7

TOTAL NUMBER OF OBSERVATIONS: 660

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 76-85
MONTH: OCT HOURS(LST): 1200-1400

DIRECTION (DEGREES)	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
	WIND SPEED IN KNOTS												
N	1.3	1.4	1.4	.2								4.2	5.5
NNE	.8	1.3										2.0	4.0
NE	.6	.8	.5									1.9	4.6
ENE	.5	1.3	1.3	.2								3.1	6.4
E	2.4	3.1	1.1									6.6	4.3
ESE	1.1	2.0	1.1									4.2	5.3
SE	.8	1.7	.3									2.8	4.7
SSE	1.9	2.8	.6	.2								5.5	4.4
S	3.9	5.5	1.6	.5								11.5	4.8
SSW	1.9	4.4	5.5	1.6								13.4	7.1
SW	.5	2.5	4.4	1.4	.2							9.1	7.9
WSW	1.6	1.9	2.8	.8								7.1	6.4
W	1.3	1.7	.6									3.6	4.7
WNW	.5	.3	.3	.3								1.4	6.6
NW	.5	.5	.2	.2								1.3	4.9
NNW	1.4	.6	.8									2.8	4.2
VARIABLE			2.4	.8								3.1	9.0
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	16.2	//////
TOTALS	20.9	31.9	24.8	6.0	.2							100.0	4.9

TOTAL NUMBER OF OBSERVATIONS: 536

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106423 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 76-85
MONTH: OCT HOURS(LST): 1500-1700

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.3	2.0	1.1									4.4	5.1
NNE	.7	.7	.2									1.5	3.8
NE	1.1	.7	.7									2.4	4.3
ENE	1.8	1.3	.8									3.9	4.4
E	2.9	5.4	.8									9.1	4.3
ESE	1.3	1.5	.5									3.3	4.4
SE	1.0	1.1	.5									2.6	3.9
SSE	3.3	2.4	.3									6.0	3.6
S	3.5	4.2	1.8									9.6	4.3
SSW	1.5	3.9	3.3	1.0								9.6	6.5
SW	.7	3.6	4.4	1.5								10.1	7.4
WSW	1.5	2.3	1.3	.2								5.2	5.2
W	1.6	1.0	2.0									4.6	5.4
WNW	.7	1.0	.3	.2								2.1	5.0
NW	.3	1.0	.2									1.5	4.3
NNW	.5	1.0	1.0									2.4	5.6
VARIABLE			1.0	.2								1.1	9.1
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	20.5	//////
TOTALS	23.6	32.9	20.0	2.9								100.0	4.1

TOTAL NUMBER OF OBSERVATIONS: 614

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106423 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 76-85
MONTH: OCT HOURS(LST): 1800-2000

DIRECTION (DEGREES)	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
	WIND SPEED IN KNOTS												
N	1.8	1.1										2.9	3.5
NNE	.9	.7	.5									2.1	4.8
NE	1.5	.4	.4									2.3	3.3
ENE	2.1	1.6										3.7	3.2
E	2.9	2.1										5.0	3.2
ESE	.9	.7										1.6	3.2
SE	1.4	.4										1.8	2.6
SSE	2.1	1.8										3.9	3.4
S	3.2	1.4	1.1									5.7	3.8
SSW	1.1	2.9	2.5	.7								7.1	6.5
SW	1.1	2.1	2.7	.9								6.8	6.8
WSW	.5	.9	.7									2.1	5.8
W	1.1	.5	.5									2.1	4.3
WNW	.2	.7	.2									1.1	4.5
NW	.2											.2	2.0
NNW	.5	1.8	.2									2.5	4.9
VARIABLE													
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	48.9	//////
TOTALS	21.5	19.1	8.7	1.6								100.0	2.3

TOTAL NUMBER OF OBSERVATIONS: 560

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 76-77,80-85
MONTH: OCT HOURS(LST): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.4	.4	.4									1.3	5.7
NNE	.4	.9										1.3	3.3
NE	.4	.4	.4									1.3	5.0
ENE	.4	.4										.9	3.0
E	2.5	.9										3.5	2.9
ESE	.4	1.8	.4									2.6	4.8
SE	.4	.4										.9	3.0
SSE	.9	.9	.9									2.6	4.8
S	2.5	4.8	.4									7.9	4.0
SSW	1.8	3.5	2.2	.9								8.3	6.2
SW	.9	1.3	1.8									3.9	5.7
WSW		1.3	.4									1.8	6.5
W	.9	1.8										2.6	3.7
WNW	.4	1.3										1.8	3.8
NW	.4	.4										.9	3.0
NNW	.4	1.3	.4									2.2	5.4
VARIABLE			.4									.4	8.0
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	55.7	//////
TOTALS	13.5	21.9	7.9	.9								100.0	2.1

TOTAL NUMBER OF OBSERVATIONS: 228

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10542J STATION NAME: HAHAU AAF GERMANY

PERIOD OF RECORD: 76-85
MONTH: OCT HOURS(LST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.2	1.3	.9	.1								3.4	5.1
NNE	.5	.7	.2									1.4	4.1
NE	.9	.7	.4									2.0	4.2
ENE	1.6	1.2	.6	.1								3.4	4.3
E	2.6	2.6	.4									5.6	3.8
ESE	1.1	1.4	.4									2.9	4.4
SE	1.2	.9	.2									2.3	3.7
SSE	2.4	2.4	.4	.0								5.3	3.8
S	3.5	3.7	1.4	.1								8.8	4.4
SSW	1.6	3.7	3.6	.9								9.8	6.6
SW	.8	2.4	3.7	1.1	.1							8.1	7.6
WSW	.9	1.2	1.1	.2								3.5	5.9
W	1.2	.9	.7									2.8	4.6
WNW	.5	.5	.2	.1								1.4	4.8
NW	.4	.3	.1	.0								.9	3.9
NNW	1.0	1.0	.7									2.7	4.6
VARIABLE			1.0	.3								1.2	9.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	34.5	//////
TOTALS	21.5	24.9	16.1	3.0	.1							100.0	3.4

TOTAL NUMBER OF OBSERVATIONS: 3178

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HAHAU AAF GERMANY PERIOD OF RECORD: 76-85
MONTH: NOV HOURS(LST): 0600-0800

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.8	.9	1.6									4.4	5.0
NNE	.5	.2	.9	.2								1.8	6.0
NE	.5		.5									.9	5.8
ENE	1.4											1.4	2.3
E	2.3	.2										2.5	2.3
ESE	.7	.2										.9	2.0
SE	1.6	.9										2.5	3.2
SSE	2.8	3.7	.5									6.9	4.1
S	2.3	3.0	1.4	.2								6.9	4.7
SSW	1.8	2.3	2.5	.5								7.2	6.1
SW	1.8	2.5	2.8									7.2	5.8
WSW	.9	2.1	1.4									4.4	5.1
W	1.4	1.2		.2								2.8	4.6
WNW		.7	.2	.2								1.2	7.2
NW	.5	.5	.2									1.2	4.2
NNW	2.3	.9										3.2	3.9
VARIABLE			.9	1.4								2.3	11.9
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	48.3	//////
TOTALS	22.5	19.4	12.9	2.8								100.0	2.9

TOTAL NUMBER OF OBSERVATIONS: 433

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HAHN AAF GERMANY PERIOD OF RECORD: 76-85
MONTH: NOV HOURS(LST): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.0	1.9	.7									3.5	4.8
NNE	1.0	.5	1.9	.2								3.5	6.3
NE	.8	.3	1.2									2.4	5.6
ENE	1.3		.3									1.7	3.2
E	1.9	.7	.2									2.7	3.8
ESE	1.2	.3	.2									1.7	2.9
SE	2.9	1.2										4.0	2.8
SSE	1.3	3.0	.5									4.9	4.1
S	3.2	4.2	.8									8.3	4.1
SSW	2.0	3.4	3.7	.5								9.6	6.4
SW	1.9	4.7	3.4	1.3								11.3	6.3
WSW	1.3	2.2	1.3	.3								5.2	5.8
W	1.0	1.3	.5									2.9	4.0
WNW		.5	.3									.8	5.8
NW	1.0	.3	.3									1.7	2.9
NNW	1.3	.5	.7									2.6	4.2
VARIABLE			1.7	2.0								3.7	11.3
CALM	////	////	////	////	////	////	////	////	////	////	////	29.5	////
TOTALS	23.3	25.1	17.7	4.4								100.0	3.7

TOTAL NUMBER OF OBSERVATIONS: 593

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 76-85
MONTH: NOV HOURS(LST): 1200-1400

DIRECTION (DEGREES)	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
	WIND SPEED IN KNOTS												
N	2.2	1.7	2.2	.2								6.3	5.5
NNE	.7	.2	1.4	.5								2.7	7.7
NE	.5	.2	1.2	.2								2.0	7.1
ENE	1.0	.8	.7									2.5	4.6
E	1.2	1.4	.5									3.1	4.2
ESE	1.0	1.9	.5									3.4	4.4
SE	.3	1.7	.5									2.5	5.3
SSE	1.5	1.2	.8									3.6	4.3
S	3.4	2.5	2.0	.2								8.1	4.7
SSW	3.1	3.9	4.9	1.2								13.1	6.3
SW	2.2	3.7	3.9	2.2								12.1	7.2
WSW	1.7	2.7	2.7	1.0	.2							8.3	6.9
W	1.2	1.5	.6	.2								3.7	5.2
WNW	1.2	.5	.7									2.4	4.1
NW	1.0	.8	.8									2.7	4.9
NNW	1.4	1.7	.7	.2								3.9	4.8
VARIABLE		.3	3.2	3.2								6.8	10.0
CALM	//////////											13.7	//////
TOTALS	23.5	26.8	27.7	9.0	.2							100.0	5.4

TOTAL NUMBER OF OBSERVATIONS: 589

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 76-85
MONTH: NOV HOURS(LST): 1500-1700

DIRECTION (DEGREES)	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.2	2.0	1.2	.2								4.6	5.3
NNE	.9	1.0	2.9	.2								4.9	6.8
NE	1.2		1.2									2.4	5.9
ENE	.3	.7	.3									1.4	5.3
E	1.2	.7										1.9	3.3
ESE	.7	2.0	.2									2.9	4.2
SE	2.2	1.4	.2									3.8	3.3
SSE	2.7	2.0	.3									5.1	3.6
S	3.6	3.1	1.4	.3								8.4	4.7
SSW	2.7	2.0	5.8	.3								10.9	6.3
SW	2.0	4.6	3.4	.9								10.9	6.4
WSW	1.2	3.1	1.5	1.2								7.0	6.5
W	1.0	2.0	1.9	.2								5.1	5.7
WNW	.5	.5	.7									1.7	5.5
NW	1.5	.7	.2									2.4	3.4
NNW	1.7	1.4	.3									3.4	3.9
VARIABLE			.7	1.7								2.4	12.4
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	20.8	//////
TOTALS	24.7	27.3	22.2	4.9								100.0	4.4

TOTAL NUMBER OF OBSERVATIONS: 586

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105420 STATION NAME: HAHAU AAF GERMANY PERIOD OF RECORD: 76-85
MONTH: NOV HOURS(LST): 1800-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.9	.6	1.5									3.0	5.9
NNE	.5	.6	2.1	.4								3.6	7.1
NE	1.5	.6	.6									2.7	3.6
ENE	1.3	.4										1.7	2.8
E	1.5	.8										2.3	2.8
ESE	.9	.8										1.7	3.3
SE	.8	.6	.2									1.5	4.1
SSE	1.5	2.1	1.7									5.3	5.5
S	4.6	2.3	.6	.6								8.0	3.9
SSW	.5	2.8	3.4	.6								7.4	6.9
SW	.5	4.9	2.3	1.1								8.9	7.0
WSW	.9	1.7	1.7									4.4	5.4
W	.6	.8	1.7									3.0	6.4
WNW	.4	.2	.2									.8	3.5
NW	1.1	.4										1.5	2.3
NNW	.8	1.3	.2									2.3	4.3
VARIABLE			.9									.9	14.2
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	41.0	//////
TOTALS	18.5	20.7	16.1	3.6								100.0	3.2

TOTAL NUMBER OF OBSERVATIONS: 527

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10642J STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 76-78,80-85
MONTH: NOV HOURS(LST): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	OE 56	TOTAL %	MEAN WIND
N	.9	.5	.5									1.8	3.8
NNE	.9	.9	2.3	.9								5.0	7.5
NE	.9	.5	.5	.5								2.3	6.4
ENE	.5		.5									.9	5.0
E	2.3	.9										3.2	2.6
ESE													
SE	.5		.5									.9	4.5
SSE	2.7	1.4	.5									4.5	3.7
S	2.7	2.3										5.0	3.6
SSW	2.3	1.8	2.3	.9								7.3	5.9
SW	1.8	2.3	3.2									7.3	6.1
WSW	1.4	1.4	.5									3.2	4.3
W	.5	.5	1.4									2.3	7.0
WNW	.9											.9	1.5
NW	.5	.9										1.4	4.0
NNW	1.4	.5	.9									2.7	4.5
VARIABLE													
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	51.4	//////
TOTALS	20.0	13.6	12.7	2.3								100.0	2.5

TOTAL NUMBER OF OBSERVATIONS: 220

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 76-85
MONTH: NOV HOURS(LST): ALL

DIRECTION (DEGREES)	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
	WIND SPEED IN KNOTS												
N	1.4	1.4	1.4	.1								4.2	5.3
NNE	.7	.5	1.9	.3								3.5	6.9
NE	.9	.2	.9	.1								2.1	5.6
ENE	1.0	.4	.3									1.7	3.8
E	1.5	.8	.1									2.5	3.1
ESE	.8	1.0	.2									2.0	3.8
SE	1.5	1.1	.2									2.8	3.6
SSE	2.0	2.3	.7									5.0	4.3
S	3.4	3.0	1.2	.2								7.8	4.4
SSW	2.1	2.8	4.0	.6								9.6	6.4
SW	1.7	4.0	3.2	1.1								10.0	6.5
WSW	1.3	2.3	1.7	.5	.0							5.8	6.0
W	1.0	1.3	1.1	.1								3.5	5.4
WNW	.5	.4	.4	.0								1.4	4.9
NW	1.0	.6	.3									1.9	3.9
NNW	1.5	1.1	.4	.0								3.1	4.1
VARIABLE		.1	1.3	1.8								3.1	11.3
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	30.0	//////
TOTALS	22.5	23.4	19.2	4.9	.0							100.0	3.9

TOTAL NUMBER OF OBSERVATIONS: 2948

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 76-85
MONTH: DEC HOURS(LST): 0600-0800

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.0	1.2	.2									2.4	4.2
NNE		.7	.2									1.0	6.8
NE	1.2	.7										1.9	3.3
ENE	1.2	1.2										2.4	4.1
E	1.2	1.7	.5									3.4	4.6
ESE	1.0	1.0	.2									2.2	3.7
SE	.5	1.0	.5	.2								2.2	5.7
SSE	1.5	2.7	.2									4.4	4.2
S	1.9	3.1	2.9	.7								8.7	5.8
SSW	1.7	2.4	7.3	1.9	.2							13.6	8.0
SW	1.0	1.5	3.6	1.2								7.3	8.1
WSW	1.0	.2	1.2	.2								2.7	6.5
W	.2	1.0	.5									1.7	5.0
WNW		.2	.5									.7	7.3
NW													
NNW	1.7	1.2	1.0									3.9	4.6
VARIABLE			.2	1.2								1.5	12.2
CALM	////	////	////	////	////	////	////	////	////	////	////	40.2	////
TOTALS	15.0	19.9	19.1	5.6	.2							100.0	3.7

TOTAL NUMBER OF OBSERVATIONS: 413

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 76-85
MONTH: DEC HOURS(LST): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.0	1.1	.5									2.6	4.8
NNE	.3	.3	.7									1.3	6.5
NE	1.0	1.5	.2									2.6	3.8
ENE	1.6	1.8	.5									3.9	4.3
E	1.5	1.5	.5									3.4	4.0
ESE	.7	.5	.7									1.8	5.0
SE	1.8	.5										2.3	3.1
SSE	2.6	2.1	1.5	.3								6.5	4.8
S	1.5	3.4	1.8	.2								6.8	5.4
SSW	2.8	4.4	4.9	1.8								13.8	6.9
SW	1.5	2.1	2.4	1.8	.3		.2					8.3	8.5
WSW	1.0	1.0	1.5	.2								3.6	6.2
W	.2	.5	.7									1.3	6.9
WNW	.3	.2		.2								.7	6.3
NW	.3	.7		.2								1.1	5.0
NNW	.5	1.0	.7									2.1	5.1
VARIABLE		.2	1.3	1.4								3.3	11.0
CALM	////////	////////	////////	////////	////////	////////	////////	////////	////////	////////	////////	34.6	//////
TOTALS	18.4	22.6	17.6	6.3	.3		.2					100.0	4.0

TOTAL NUMBER OF OBSERVATIONS: 615

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106423 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 76-85
MONTH: DEC HOURS(LST): 1200-1400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.5	1.5										3.0	3.4
NNE	.5	1.0	.3									1.8	5.0
NE	1.3	1.0	1.0									3.3	4.6
ENE	1.3	2.8	.5									4.6	4.1
E	1.1	1.5	2.0									4.6	5.3
ESE	1.0	1.5	.7									3.1	4.8
SE	1.8	1.1	.3	.2								3.4	4.3
SSE	2.5	2.5	.5	.3								5.9	4.4
S	1.6	2.5	1.6	.7								6.4	5.5
SSW	1.3	4.4	3.0	3.0								11.7	7.6
SW	.7	4.3	5.3	3.9	.7	.2						14.9	9.1
WSW	1.3	1.1	1.6	.5		.2						4.8	7.3
W	.7	.2	.8	.3		.2						2.1	8.2
WNW	.8	.2	.7	.3								2.0	6.3
NW	1.0	.5	.5									2.0	4.7
NNW	1.1	1.1	1.0									3.3	4.9
VARIABLE			1.3	1.5	.3	.2						3.3	12.5
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	19.9	//////
TOTALS	19.7	27.1	21.0	10.7	1.0	.7						100.0	5.2

TOTAL NUMBER OF OBSERVATIONS: 609

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 76-85
MONTH: DEC HOURS(LST): 1500-1700

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.5	1.0										2.5	2.9
NNE	.7	1.5	.5									2.7	4.7
NE	.8	.8	.3									2.0	4.3
ENE	2.0	1.8	1.0									4.9	4.4
E	1.7	2.2	1.2									5.0	4.9
ESE	1.5	1.3	.7									3.5	4.4
SE	.5	1.2	.8									2.5	4.9
SSE	1.7	1.5	.7									3.9	4.0
S	3.7	3.5	2.3	.3	.2							10.1	5.2
SSW	2.0	4.0	3.5	2.0								11.6	6.8
SW	1.2	3.5	5.0	3.5	.3							13.6	8.7
WSW	.7	1.5	1.8	1.0	.3							5.4	8.3
W	.3	1.5	.6	.2								2.9	6.4
WNW	.7	.8	.5	.2								2.2	5.5
NW	.7	.2	.3	.2								1.3	5.1
NNW	1.0	.7	.8									2.5	4.5
VARIABLE			.2	.5	.2							.8	13.6
CALM	////	////	////	////	////	////	////	////	////	////	////	22.7	////
TOTALS	20.6	27.2	20.6	7.9	1.0							100.0	4.7

TOTAL NUMBER OF OBSERVATIONS: 596

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 76-85
MONTH: DEC HOURS(LST): 1800-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.4	2.2										3.6	3.8
NNE	1.7	1.1										2.8	3.4
NE	1.7	.3										1.9	2.4
ENE	1.7	1.1	.3									3.0	3.5
E	1.1	1.4	.3									2.8	4.4
ESE	.3	.8										1.1	4.3
SE	.6	.3	.3									1.1	4.0
SSE	1.9	1.4	.8	.3								4.4	5.2
S	2.5	5.5	1.4									9.4	4.6
SSW	1.9	4.1	3.6	3.6								13.3	7.9
SW	1.1	3.3	3.6	3.3								11.3	8.0
WSW	.3	1.1	1.9	.8								4.1	8.4
W	.8	.8	.8	.3								2.8	5.7
WNW	.5	.8	.3									1.7	4.2
NW	.5	.6										1.1	3.5
NNW	.3	.6	.8									1.7	5.5
VARIABLE			.3	.3								.6	11.0
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	33.4	//////
TOTALS	18.2	25.4	14.4	8.6								100.0	4.0

TOTAL NUMBER OF OBSERVATIONS: 362

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 76-77,80-85
MONTH: DEC HOURS(LST): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.7	.9										2.6	3.7
NNE	.9	3.4										4.3	4.8
NE		.9										.9	4.0
ENE		1.7										1.7	4.5
E	1.7	2.6										4.3	3.6
ESE	2.6											2.6	2.3
SE	2.6	.9										3.4	3.0
SSE		2.6	.9									3.4	5.8
S	4.3	1.7	2.6									8.5	4.5
SSW	3.4	5.1	6.0	.9								15.4	5.9
SW		1.7	4.3	2.6								8.5	9.2
WSW			3.4			.9						4.3	10.6
W			.9									.9	10.0
WNW	.9	.9	.9									2.6	5.7
NW		.9										.9	5.0
NNW	.9	.9	.9									2.6	5.0
VARIABLE													
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	33.3	//////
TOTALS	18.8	23.9	19.7	3.4		.9						100.0	3.9

TOTAL NUMBER OF OBSERVATIONS: 117

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 76-85
MONTH: DEC HOURS(LST): ALL

DIRECTION (DEGREES)	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
	WIND SPEED IN KNOTS												
N	1.3	1.3	.1									2.8	3.8
NNE	.5	1.0	.4									2.0	4.9
NE	1.1	.9	.3									2.4	3.9
ENE	1.5	1.8	.5									3.8	4.2
E	1.4	1.7	.9									4.0	4.7
ESE	1.0	1.0	.5									2.5	4.4
SE	1.2	.8	.4	.1								2.5	4.3
SSE	2.0	2.1	.8	.2								5.1	4.5
S	2.3	3.4	2.0	.4	.0							8.1	5.3
SSW	2.0	4.0	4.4	2.3	.0							12.8	7.3
SW	1.0	2.9	4.1	2.8	.3	.0	.0					11.2	8.6
WSW	.9	1.0	1.7	.5	.1	.1						4.2	7.6
W	.4	.7	.7	.1		.0						2.1	6.6
WNW	.5	.4	.4	.1								1.5	5.7
NW	.5	.4	.2	.1								1.2	4.7
NNW	.9	.9	.8									2.7	4.8
VARIABLE		.0	.7	1.1	.1	.0						2.0	11.9
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	29.3	//////
TOTALS	19.7	24.6	18.9	7.7	.6	.2	.0					100.0	4.4

TOTAL NUMBER OF OBSERVATIONS: 2712

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HAHAU AAF GERMANY PERIOD OF RECORD: 76-80
MONTH: ALL HOURS(LST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.9	1.7	1.0	.1								4.8	4.7
NNE	1.2	1.2	.9	.2								3.5	5.3
NE	1.0	1.0	.6	.1	.0							2.8	5.0
ENE	1.4	1.4	.5	.0								3.4	4.3
E	1.4	1.7	.6	.0								3.7	4.4
ESE	.9	.9	.4	.0								2.2	4.3
SE	.9	.8	.3	.0								1.9	4.1
SSE	1.7	1.6	.6	.0								3.9	4.2
S	2.4	3.0	1.4	.2	.0							7.0	4.9
SSW	1.4	3.0	3.1	.8	.0	.0						8.4	6.6
SW	1.0	2.7	3.2	1.2	.1	.0	.0					8.2	7.4
WSW	1.3	1.9	1.6	.5	.0	.0						5.4	6.2
W	1.3	1.7	1.3	.3	.0	.0						4.6	5.7
WNW	.9	1.2	.7	.1	.0	.0						3.0	5.2
NW	.9	1.0	.5	.1	.0							2.5	4.9
NNW	1.7	1.7	.9	.2	.0	.0						4.4	4.8
VARIABLE	.0	.1	2.0	.7	.1	.0						2.9	9.8
CALM	////	////	////	////	////	////	////	////	////	////	////	27.5	////
TOTALS	21.5	28.5	19.6	4.6	.2	.0	.0					100.0	4.1

TOTAL NUMBER OF OBSERVATIONS: 39521

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 76-86
MONTH: ALL HOURS(LST): ALL

CEILINGS 200 TO 1400 FEET WITH VISIBILTIES 1/2 MILE OR MORE
AND/OR
CEILINGS 200 FEET OR MORE WITH VISIBILTIES 1/2 TO 2-1/2 MILES

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	2.3	1.4	.4	.1								4.2	3.8
NNE	.9	.9	.4	.0								2.3	4.8
NE	.7	.7	.3									1.7	4.2
ENE	1.0	.7	.0									1.8	3.5
E	1.2	.7	.0									1.9	3.1
ESE	1.3	.8	.2									2.3	3.4
SE	1.4	.7	.2									2.3	3.4
SSE	2.6	1.8	.6									5.0	3.7
S	4.2	3.5	1.3	.2								9.2	4.2
SSW	2.5	3.3	3.2	.7								9.7	5.9
SW	1.5	2.1	1.8	.6	.0							6.0	6.1
WSW	1.3	.9	.5	.0								2.4	4.5
W	.6	.3	.1									1.1	3.4
WNW	.3	.3	.1	.0								.7	4.4
NW	.7	.4	.1	.0								1.3	3.8
NNW	1.6	1.1	.7	.1								3.5	4.6
VARIABLE		.0	.4	.3								.7	10.1
CALM	////	////	////	////	////	////	////	////	////	////	////	44.0	////
TOTALS	23.9	19.8	10.3	2.0	.0							100.0	2.6

TOTAL NUMBER OF OBSERVATIONS: 4084

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

CEILING VERSUS VISIBILITY

PART 3

This summary is a bivariate percentage frequency distribution by classes of ceiling from zero to equal to or greater than 20,000 feet and as a separate class "no ceiling," versus visibility in 16 classes from zero to equal to or greater than 10 miles. Data are derived from hourly observations, and the tables are presented by month and available 3-hour groups.

Due to the cumulative nature of this presentation, it is possible to determine the percentage frequency of occurrence for any given limit of ceiling or visibility separately, or in combination of ceiling and visibility. The totals progress to the right and downward. Ceiling may be determined independently by referring to totals in the extreme right hand column. Also, visibility may be determined independently by reference to the horizontal row of totals at the bottom of the page. The percentage frequency for which the station was meeting or exceeding any given set of minima may be determined from the figure at the intersection of the appropriate ceiling column and visibility row.

Beginning in January 1968, METAR stations report visibilities to 6 miles and then greater than 6 miles. Thus, for METAR stations, the category equal to or greater than 10 miles is not printed in the tables. For most Airways stations, visibilities of greater than 7 miles were not reported for part of the period of record. Therefore, the 10 mi visibility category should be used with great caution.

For overseas civilian stations reporting "CAVOK", all ceilings greater than 5,000 feet are suppressed into the 5,000 foot ceiling class.

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105420 STATION NAME: HAHAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: JAN HOURS(LST): 0600-0800

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 6	GE 4	GE 0
NO CEIL		11.3	12.7	15.0	16.8	17.2	20.1	20.3	20.5	21.6	21.6	21.6	21.8	21.8	21.8	21.8
GE 20000		13.6	15.0	17.7	19.9	20.3	23.4	23.6	23.8	24.8	24.8	24.8	25.1	25.1	25.1	25.1
GE 18000		13.8	15.2	17.9	20.1	20.5	23.8	24.2	24.4	25.5	25.5	25.5	25.7	25.7	25.7	25.7
GE 16000		13.8	15.2	17.9	20.1	20.5	23.8	24.2	24.4	25.5	25.5	25.5	25.7	25.7	25.7	25.7
GE 14000		13.8	15.2	17.9	20.1	20.5	23.8	24.2	24.4	25.5	25.5	25.5	25.7	25.7	25.7	25.7
GE 12000		14.0	15.4	18.1	20.3	20.7	24.0	24.4	24.6	25.7	25.7	25.7	25.9	25.9	25.9	25.9
GE 10000		14.4	15.8	18.5	20.9	21.4	24.8	25.3	25.5	26.5	26.5	26.5	26.7	26.7	26.7	26.7
GE 9000		14.6	16.0	18.7	21.1	21.6	25.1	25.5	25.7	26.7	26.7	26.7	26.9	26.9	26.9	26.9
GE 8000		17.5	18.9	21.6	24.0	24.4	27.9	28.5	28.7	29.8	29.8	29.8	30.0	30.0	30.0	30.0
GE 7000		18.1	19.5	22.2	24.6	25.1	28.5	29.2	29.4	30.6	30.6	30.6	30.8	30.8	30.8	30.8
GE 6000		18.3	19.7	22.6	25.1	25.5	29.0	29.6	29.8	31.0	31.0	31.0	31.2	31.2	31.2	1.2
GE 5000		21.4	23.2	26.7	29.2	29.6	33.1	34.5	34.7	36.6	36.6	36.6	36.8	36.8	36.8	36.8
GE 4500		22.6	24.4	28.7	31.6	32.0	36.1	37.6	37.8	39.6	39.6	39.6	39.8	39.8	39.8	39.8
GE 4000		25.5	27.9	32.6	35.5	35.9	40.7	42.1	42.3	44.1	44.1	44.1	44.4	44.4	44.4	44.4
GE 3500		28.1	30.6	35.9	39.2	39.8	44.8	46.2	46.6	49.1	49.1	49.1	49.3	49.3	49.3	49.3
GE 3000		31.8	35.5	43.1	47.0	47.6	53.2	54.6	55.0	57.5	57.5	58.1	58.3	58.3	58.3	58.3
GE 2500		35.3	39.6	47.6	52.2	52.8	58.3	60.0	60.4	63.0	63.0	63.7	63.9	64.1	64.1	64.1
GE 2000		38.8	44.4	54.4	59.5	60.8	67.4	69.8	70.2	73.1	73.1	73.7	73.9	74.1	74.1	74.1
GE 1800		40.2	45.6	55.9	61.0	62.2	69.2	71.9	72.3	75.2	75.2	75.8	76.0	76.2	76.2	76.2
GE 1500		41.1	46.8	58.3	64.1	65.3	72.7	75.8	76.8	79.9	79.9	80.5	80.7	80.9	80.9	80.9
GE 1200		42.1	48.0	61.0	67.8	69.2	76.8	79.9	81.7	85.2	85.4	86.0	86.2	86.4	86.4	86.4
GE 1000		42.7	48.7	62.0	69.0	70.4	78.4	81.5	83.4	87.1	87.5	88.1	88.3	88.7	88.7	88.7
GE 900		42.9	48.9	62.2	69.2	70.6	78.9	81.9	83.8	87.7	88.1	88.7	88.9	89.5	89.5	89.5
GE 800		42.9	48.9	62.4	69.4	70.8	79.9	84.2	86.0	90.3	90.8	91.4	91.8	92.4	92.4	92.4
GE 700		42.9	48.9	62.8	69.8	71.3	80.3	84.8	86.7	91.0	91.4	92.0	92.4	93.2	93.2	93.2
GE 600		42.9	48.9	62.8	69.9	71.3	80.5	86.2	88.1	92.6	93.0	93.6	94.0	94.9	94.9	94.9
GE 500		42.9	49.1	63.7	70.6	72.1	81.5	87.3	89.5	94.0	94.9	95.5	96.1	96.9	96.9	96.9
GE 400		42.9	49.1	63.7	70.6	72.1	81.5	87.7	89.9	95.1	95.9	96.5	97.1	97.9	97.9	97.9
GE 300		42.9	49.1	63.7	70.6	72.1	81.5	87.7	89.9	95.3	96.3	96.9	97.7	98.6	98.6	98.6
GE 200		42.9	49.1	63.7	70.6	72.1	81.7	87.9	90.1	95.5	96.5	97.1	98.2	99.0	99.0	99.0
GE 100		42.9	49.1	63.7	70.6	72.1	81.7	87.9	90.1	95.5	96.5	97.1	98.2	99.0	99.0	99.4
GE 0		43.1	49.3	63.9	70.8	72.3	81.9	88.1	90.3	95.7	96.7	97.3	98.4	99.2	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS: 487

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105420 STATION NAME: HAHAU AAF GERMANY PERIOD OF RECORD: 77-86
MONTH: JAN HOURS(LST): 0900-1100

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		9.7	10.9	14.9	15.9	16.8	18.4	18.8	19.1	20.5	20.5	20.5	20.5	20.5	20.5	20.5
GE 20000		12.6	13.8	18.1	19.3	20.5	22.2	22.8	23.1	24.4	24.4	24.4	24.4	24.4	24.4	24.4
GE 18000		12.7	14.1	18.4	19.7	20.9	22.6	23.2	23.5	24.9	24.9	24.9	24.9	24.9	24.9	24.9
GE 16000		12.7	14.1	18.4	19.7	20.9	22.6	23.2	23.5	24.9	24.9	24.9	24.9	24.9	24.9	24.9
GE 14000		12.9	14.3	18.5	19.9	21.1	22.8	23.4	23.7	25.0	25.0	25.0	25.0	25.0	25.0	25.0
GE 12000		13.5	14.9	19.1	20.5	21.7	23.4	24.0	24.3	25.6	25.6	25.6	25.6	25.6	25.6	25.6
GE 10000		14.3	15.6	20.0	21.4	22.6	24.4	25.0	25.3	26.9	26.9	26.9	26.9	26.9	26.9	26.9
GE 9000		15.6	17.1	21.5	22.9	24.1	25.9	26.6	26.9	28.4	28.4	28.4	28.4	28.4	28.4	28.4
GE 8000		19.8	20.3	24.9	26.3	27.6	29.4	30.3	30.8	32.3	32.3	32.6	32.6	32.6	32.6	32.6
GE 7000		19.6	21.1	25.9	27.3	28.7	30.5	31.4	32.0	33.5	33.7	34.0	34.0	34.0	34.0	34.0
GE 6000		19.7	21.2	26.1	27.5	28.8	30.7	31.6	32.2	33.7	33.8	34.1	34.1	34.1	34.1	34.1
GE 5000		22.8	24.6	29.7	31.1	32.5	34.3	35.2	36.6	38.1	38.2	38.5	38.5	38.5	38.5	38.5
GE 4500		24.6	26.4	32.3	34.0	35.4	37.5	38.4	39.9	41.7	41.9	42.2	42.2	42.2	42.2	42.2
GE 4000		27.6	29.6	36.4	38.1	39.5	41.6	42.5	44.0	45.8	46.0	46.3	46.3	46.3	46.3	46.3
GE 3500		29.7	31.6	39.0	40.7	42.2	44.5	45.5	47.2	49.3	49.5	49.9	49.9	49.9	49.9	49.9
GE 3000		35.2	37.0	46.3	48.4	50.4	53.1	54.2	55.8	58.0	58.3	58.7	58.7	58.7	58.7	58.7
GE 2500		39.6	41.7	51.7	54.5	56.8	59.8	60.8	62.5	64.6	64.9	65.4	65.4	65.4	65.4	65.4
GE 2000		44.3	47.3	58.1	61.0	63.1	67.1	68.7	70.6	72.8	73.1	73.7	73.7	73.7	73.7	73.7
GE 1800		44.9	48.0	58.9	61.9	64.0	68.4	70.1	71.9	74.2	74.5	75.1	75.1	75.1	75.1	75.1
GE 1500		46.4	49.8	61.8	65.9	68.3	73.7	75.7	77.5	80.0	80.7	81.6	81.6	81.6	81.6	81.6
GE 1200		48.0	51.4	63.9	68.6	71.0	77.2	79.4	81.2	83.6	84.7	85.6	85.6	85.6	85.6	85.6
GE 1000		49.0	52.5	65.7	70.6	73.3	80.1	82.4	84.7	87.4	88.5	89.5	89.5	89.7	89.7	89.7
GE 900		49.3	52.8	66.0	71.0	73.7	81.2	83.5	85.9	88.6	89.7	90.7	90.7	90.9	90.9	90.9
GE 800		49.3	53.0	66.6	71.8	74.5	82.5	85.0	87.6	90.3	91.4	92.4	92.4	92.6	92.6	92.6
GE 700		49.3	53.0	66.6	72.1	74.8	83.3	85.9	88.6	91.4	92.4	93.5	93.5	93.6	93.6	93.6
GE 600		49.3	53.0	66.6	72.4	75.4	84.2	87.1	90.1	92.9	93.9	95.0	95.0	95.1	95.1	95.1
GE 500		49.3	53.0	66.8	72.5	75.6	84.5	87.6	90.6	94.1	95.4	96.5	96.7	97.1	97.1	97.1
GE 400		49.3	53.0	66.8	72.5	75.6	84.5	87.6	90.6	94.7	96.2	97.3	97.4	98.2	98.3	98.3
GE 300		49.3	53.0	66.8	72.5	75.6	84.5	87.6	90.6	94.6	96.4	97.4	97.7	98.8	98.9	98.9
GE 200		49.3	53.0	66.8	72.5	75.6	84.5	87.6	90.6	94.8	96.4	97.4	98.0	99.2	99.4	99.4
GE 100		49.3	53.0	66.8	72.5	75.6	84.5	87.6	90.6	94.8	96.4	97.4	98.0	99.2	99.4	99.4
GE 0		49.3	53.0	66.8	72.5	75.6	84.5	87.6	90.6	94.8	96.4	97.4	98.0	99.2	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS: 659

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10642J STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 77-86
MONTH: JAN HOURS(LST): 1200-1400

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		11.6	12.1	17.6	19.3	19.3	20.3	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
GE 20000		15.4	15.9	22.3	24.2	24.2	25.4	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8
GE 18000		16.1	16.5	22.9	24.8	24.8	26.0	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
GE 16000		16.1	16.5	22.9	24.8	24.8	26.0	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
GE 14000		16.1	16.5	22.9	24.8	24.8	26.0	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
GE 12000		16.5	17.0	23.4	25.2	25.2	26.5	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8
GE 10000		17.4	17.9	24.9	26.8	26.9	28.1	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5
GE 9000		19.1	19.6	26.8	28.6	28.7	30.0	31.3	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7
GE 8000		21.7	22.2	30.3	32.1	32.3	33.6	35.0	35.5	35.6	35.8	36.1	36.1	36.1	36.1	36.1
GE 7000		22.9	23.4	31.7	33.5	33.6	35.0	36.4	37.2	37.5	37.6	37.9	37.9	37.9	37.9	37.9
GE 6000		23.1	23.5	31.8	33.6	33.8	35.2	36.5	37.3	37.6	37.8	38.1	38.1	38.1	38.1	38.1
GE 5000		26.8	27.8	37.8	39.6	39.8	41.1	42.5	43.6	43.9	44.0	44.3	44.3	44.3	44.3	44.3
GE 4500		28.1	29.4	39.8	41.6	41.7	43.1	44.5	45.6	46.0	46.2	46.5	46.5	46.5	46.5	46.5
GE 4000		31.2	32.4	43.0	45.0	45.1	46.5	48.0	49.1	49.5	49.8	50.2	50.2	50.2	50.2	50.2
GE 3500		34.6	35.8	47.1	49.7	50.0	51.8	53.4	54.4	54.9	55.2	55.5	55.5	55.5	55.5	55.5
GE 3000		40.1	41.6	55.4	58.6	58.9	60.9	62.4	63.5	64.1	64.4	64.7	64.7	64.7	64.7	64.7
GE 2500		42.4	44.0	58.6	62.1	62.5	65.0	66.5	67.6	68.2	68.5	68.8	68.8	68.8	68.8	68.8
GE 2000		48.8	50.9	66.1	70.0	70.6	73.4	75.1	76.1	76.8	77.1	77.4	77.4	77.5	77.5	77.5
GE 1900		50.3	52.4	67.9	72.0	73.1	75.8	77.5	78.7	79.4	79.7	80.0	80.0	80.1	80.1	80.1
GE 1500		52.3	54.7	71.4	76.3	77.4	80.6	82.3	83.6	84.6	84.9	85.2	85.2	85.3	85.3	85.3
GE 1200		54.3	56.9	74.9	80.1	81.3	84.9	86.9	88.2	89.1	89.4	89.8	89.8	89.9	89.9	89.9
GE 1000		54.4	57.2	76.0	81.2	82.6	86.2	88.5	90.1	91.0	91.3	91.6	91.6	91.7	91.7	91.7
GE 900		54.6	57.3	76.6	82.0	83.3	87.3	89.9	91.4	92.4	92.7	93.0	93.1	93.3	93.3	93.3
GE 800		54.9	57.6	77.5	82.9	84.3	88.4	91.1	92.8	94.0	94.6	95.0	95.1	95.3	95.3	95.3
GE 700		54.9	57.6	77.7	83.2	84.6	88.7	91.4	93.1	94.5	95.1	95.4	95.6	95.7	95.7	95.7
GE 600		54.9	57.6	77.8	83.3	84.7	88.8	91.6	93.3	95.3	95.9	96.2	96.3	96.5	96.5	96.5
GE 500		54.9	57.6	77.8	83.3	84.7	88.8	91.7	93.4	96.0	97.1	97.4	97.6	97.7	98.0	98.0
GE 400		54.9	57.6	77.8	83.3	84.7	88.8	91.7	93.4	96.3	97.4	97.9	98.2	98.6	98.9	98.9
GE 300		54.9	57.6	77.8	83.3	84.7	88.8	91.7	93.4	96.3	97.4	97.9	98.2	98.8	99.1	99.1
GE 200		54.9	57.6	77.8	83.3	84.7	88.8	91.7	93.4	96.3	97.4	97.9	98.2	98.9	99.2	99.2
GE 100		54.9	57.6	77.8	83.3	84.7	88.8	91.7	93.4	96.3	97.4	97.9	98.2	98.9	99.2	99.4
GE 0		54.9	57.6	77.8	83.3	84.7	88.8	91.9	93.6	96.5	97.6	98.0	98.3	99.1	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS: 654

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10642J STATION NAME: HAHAU AAF GERMANY PERIOD OF RECORD: 77-86
MONTH: JAN HOURS(LST): 1500-1700

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		13.4	13.9	19.1	21.3	21.6	22.0	23.0	23.3	23.4	23.4	23.4	23.4	23.4	23.4	23.4
GE 20000		16.9	17.8	23.4	25.8	26.1	26.7	27.7	28.1	28.4	28.4	28.4	28.4	28.4	28.4	28.4
GE 18000		17.2	18.1	23.8	26.1	26.4	27.0	28.0	28.4	28.8	28.8	28.8	28.8	28.8	28.8	28.8
GE 16000		17.2	18.1	23.8	26.1	26.4	27.0	28.0	28.4	28.8	28.8	28.8	28.8	28.8	28.8	28.8
GE 14000		17.7	18.6	24.2	26.6	26.9	27.5	28.4	28.9	29.2	29.2	29.2	29.2	29.2	29.2	29.2
GE 12000		18.0	18.9	24.9	27.2	27.5	28.1	29.1	29.5	29.8	29.8	29.8	29.8	29.8	29.8	29.8
GE 10000		20.6	21.7	28.0	30.3	30.6	31.3	32.2	32.7	33.0	33.0	33.0	33.0	33.0	33.0	33.0
GE 9000		21.6	22.8	29.2	31.7	32.0	32.7	33.6	34.1	34.4	34.4	34.4	34.4	34.4	34.4	34.4
GE 8000		24.1	25.5	32.5	35.3	35.6	36.4	37.3	38.4	39.1	39.2	39.2	39.2	39.2	39.2	39.2
GE 7000		25.5	26.9	34.5	37.5	38.0	38.8	40.0	41.1	42.3	42.5	42.8	42.8	42.8	42.8	42.8
GE 6000		25.6	27.0	34.8	37.8	38.3	39.1	40.3	41.4	42.7	42.8	43.1	43.1	43.1	43.1	43.1
GE 5000		27.0	28.6	38.0	40.9	41.4	42.2	43.4	44.5	45.8	45.9	46.3	46.3	46.3	46.3	46.3
GE 4500		29.1	30.9	41.1	44.1	44.5	45.3	46.7	48.0	49.2	49.4	49.7	49.7	49.7	49.7	49.7
GE 4000		33.9	35.8	46.4	49.4	49.8	50.6	52.3	53.6	55.0	55.2	55.5	55.5	55.5	55.5	55.5
GE 3500		37.0	39.1	49.7	52.9	53.3	54.1	56.3	57.5	58.9	59.1	59.4	59.4	59.4	59.4	59.4
GE 3000		41.7	43.9	56.4	60.0	60.5	61.3	63.4	64.7	66.1	66.3	66.6	66.6	66.6	66.6	66.6
GE 2500		44.8	47.3	60.6	64.5	65.0	66.1	68.4	69.7	71.1	71.3	71.6	71.6	71.6	71.6	71.6
GE 2000		50.8	54.2	70.0	74.2	74.7	76.1	78.8	80.0	81.4	81.6	81.9	82.2	82.2	82.2	82.2
GE 1800		52.2	56.1	72.3	76.7	77.2	78.8	81.4	82.8	84.4	84.5	84.8	85.2	85.2	85.2	85.2
GE 1500		54.5	58.8	76.4	80.9	81.9	83.6	86.3	87.7	89.5	89.7	90.0	90.3	90.3	90.3	90.3
GE 1200		55.3	59.7	78.1	82.8	83.8	86.4	89.4	91.1	93.1	93.3	93.6	93.9	93.9	93.9	93.9
GE 1000		55.6	60.0	78.4	83.1	84.1	87.0	90.0	91.7	93.8	94.1	94.4	94.7	94.7	94.7	94.7
GE 900		55.8	60.2	78.8	83.4	84.4	87.8	91.1	92.8	94.8	95.2	95.5	95.8	95.8	95.9	95.9
GE 800		55.8	60.2	79.1	84.4	85.3	88.8	92.0	93.9	95.9	96.3	96.6	97.0	97.0	97.2	97.2
GE 700		55.8	60.2	79.1	84.4	85.3	88.9	92.8	94.7	96.7	97.0	97.3	97.8	97.8	98.3	98.3
GE 600		55.8	60.2	79.1	84.4	85.3	88.9	92.8	94.7	96.7	97.0	97.3	97.8	97.8	98.3	98.3
GE 500		55.8	60.2	79.1	84.4	85.3	88.9	92.8	94.7	96.7	97.2	97.5	98.0	98.0	98.4	98.4
GE 400		55.8	60.2	79.1	84.4	85.3	88.9	92.8	94.7	96.9	97.3	97.7	98.4	98.8	99.7	99.7
GE 300		55.8	60.2	79.1	84.4	85.3	88.9	92.8	94.7	96.9	97.3	97.7	98.8	99.1	100.0	100.0
GE 200		55.8	60.2	79.1	84.4	85.3	88.9	92.8	94.7	96.9	97.3	97.7	98.8	99.1	100.0	100.0
GE 100		55.8	60.2	79.1	84.4	85.3	88.9	92.8	94.7	96.9	97.3	97.7	98.8	99.1	100.0	100.0
GE 0		55.8	60.2	79.1	84.4	85.3	88.9	92.8	94.7	96.9	97.3	97.7	98.8	99.1	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 640

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10642J STATION NAME: HAHAU AAF GERMANY PERIOD OF RECORD: 77-86
MONTH: JAN HOURS(LST): 1800-2000

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		13.8	14.2	17.6	18.7	19.8	21.5	21.9	22.1	22.4	22.4	22.4	22.4	22.4	22.4	22.4
GE 20000		15.0	15.3	18.7	20.2	21.3	23.0	23.4	23.6	24.9	24.9	24.9	24.9	24.9	24.9	24.9
GE 18000		15.3	15.7	19.1	20.6	21.7	23.4	23.7	23.9	25.6	25.6	25.6	25.6	25.6	25.6	25.6
GE 16000		15.3	15.7	19.1	20.6	21.7	23.4	23.7	23.9	25.6	25.6	25.6	25.6	25.6	25.6	25.6
GE 14000		15.3	15.7	19.1	20.6	21.7	23.4	23.7	23.9	25.6	25.6	25.6	25.6	25.6	25.6	25.6
GE 12000		16.8	17.2	20.6	22.1	23.2	24.9	25.2	25.4	27.1	27.1	27.1	27.1	27.1	27.1	27.1
GE 10000		17.9	18.3	21.7	23.2	24.3	26.0	26.4	26.5	28.2	28.2	28.2	28.2	28.2	28.2	28.2
GE 9000		18.7	19.1	22.6	24.1	25.2	26.9	27.3	27.5	29.2	29.2	29.2	29.2	29.2	29.2	29.2
GE 8000		20.4	21.1	25.4	27.3	28.4	30.1	30.5	30.8	32.7	32.9	32.9	32.9	32.9	32.9	32.9
GE 7000		22.1	22.8	27.5	30.3	31.4	33.1	33.5	34.4	36.3	36.4	36.4	36.4	36.4	36.4	36.4
GE 6000		22.2	23.0	27.9	30.7	31.8	33.5	33.8	34.8	36.6	36.8	37.2	37.2	37.2	37.2	37.2
GE 5000		23.4	24.7	31.2	35.0	36.1	37.8	38.1	39.1	40.9	41.3	41.7	41.7	41.7	41.7	41.7
GE 4500		24.5	25.8	32.9	36.6	37.8	39.4	39.8	40.7	43.2	43.6	43.9	43.9	43.9	43.9	43.9
GE 4000		29.5	31.2	38.5	42.4	43.6	45.8	46.7	47.7	50.1	50.5	50.8	50.8	50.8	50.8	50.8
GE 3500		31.8	33.8	42.1	46.4	47.5	49.9	50.8	51.8	54.2	54.6	55.0	55.0	55.0	55.0	55.0
GE 3000		36.8	39.8	49.7	54.0	55.3	57.9	58.9	59.8	62.2	62.8	63.2	63.2	63.2	63.2	63.2
GE 2500		39.8	43.4	54.2	58.5	60.0	63.2	64.1	65.0	67.5	68.0	68.4	68.4	68.4	68.4	68.4
GE 2000		45.0	49.7	63.7	68.5	70.1	73.5	75.0	76.1	78.9	79.6	80.0	80.0	80.0	80.0	80.0
GE 1800		45.2	49.9	64.9	70.7	72.1	75.5	77.0	78.1	80.9	81.7	82.1	82.1	82.1	82.1	82.1
GE 1500		47.1	51.8	67.9	74.0	75.5	79.4	80.9	82.1	85.0	85.8	86.2	86.4	86.4	86.4	86.4
GE 1200		47.7	52.5	69.9	77.0	78.5	83.6	85.4	86.5	89.5	90.3	90.7	90.8	90.8	90.8	90.8
GE 1000		48.0	52.9	70.5	77.6	79.1	84.3	86.2	87.3	90.8	92.0	92.3	92.5	92.5	92.5	92.5
GE 900		48.0	52.9	71.4	78.5	80.0	85.6	87.9	89.0	92.7	93.8	94.2	94.4	94.4	94.6	94.6
GE 800		48.0	52.9	71.4	78.5	80.0	85.6	88.2	89.7	93.8	95.0	95.3	95.5	95.5	95.7	95.7
GE 700		48.0	52.9	71.4	78.5	80.0	86.2	89.2	90.8	95.0	96.1	96.4	96.8	96.8	97.0	97.0
GE 600		48.0	52.9	71.4	78.5	80.0	86.2	89.2	90.8	95.0	96.1	96.8	97.2	97.2	97.4	97.4
GE 500		48.0	52.9	71.4	78.5	80.0	86.2	89.3	91.0	95.5	96.6	97.4	98.5	98.5	98.7	98.7
GE 400		48.0	52.9	71.4	78.7	80.2	86.4	89.5	91.2	95.7	96.8	97.6	98.9	98.9	99.4	99.4
GE 300		48.0	52.9	71.4	78.7	80.2	86.4	89.5	91.2	95.7	96.8	97.6	98.9	99.3	99.8	99.8
GE 200		48.0	52.9	71.4	78.7	80.2	86.4	89.5	91.2	95.7	96.8	97.6	98.9	99.3	99.8	99.8
GE 100		48.0	52.9	71.4	78.7	80.2	86.4	89.5	91.2	95.7	96.8	97.6	98.9	99.3	99.8	99.8
GE 0		48.2	53.1	71.6	78.9	80.4	86.5	89.7	91.4	95.9	97.0	97.8	99.1	99.4	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 535

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 77,81-86
MONTH: JAN HOURS(LST): 2100-2300

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		11.5	14.4	16.1	17.2	20.1	22.4	22.4	23.6	24.7	25.3	25.3	25.3	25.3	25.3	25.3
GE 20000		12.1	14.9	17.2	19.5	22.4	24.7	24.7	25.9	28.7	29.3	29.3	29.3	29.3	29.3	29.3
GE 18000		12.1	14.9	17.2	19.5	22.4	24.7	24.7	25.9	29.3	29.9	29.9	29.9	29.9	29.9	29.9
GE 16000		12.1	14.9	17.2	19.5	22.4	24.7	24.7	25.9	29.3	29.9	29.9	29.9	29.9	29.9	29.9
GE 14000		12.1	14.9	17.2	19.5	22.4	24.7	24.7	25.9	29.3	29.9	29.9	29.9	29.9	29.9	29.9
GE 12000		12.1	14.9	17.2	19.5	22.4	24.7	24.7	25.9	29.3	29.9	29.9	29.9	29.9	29.9	29.9
GE 10000		12.1	14.9	17.2	19.5	22.4	24.7	24.7	25.9	29.3	29.9	29.9	29.9	29.9	29.9	29.9
GE 9000		13.2	16.1	18.4	20.7	23.6	25.9	25.9	27.0	30.5	31.0	31.0	31.0	31.0	31.0	31.0
GE 8000		13.2	16.1	19.0	21.3	24.1	27.0	27.0	28.2	31.6	33.3	33.3	33.3	33.3	33.3	33.3
GE 7000		14.4	17.2	20.7	23.0	25.9	28.7	28.7	29.9	33.3	35.1	35.1	35.1	35.1	35.1	35.1
GE 6000		14.9	17.8	21.3	23.6	26.4	29.3	29.3	30.5	33.9	35.6	35.6	35.6	35.6	35.6	35.6
GE 5000		16.7	19.5	23.0	25.9	28.7	32.2	32.2	33.3	36.8	38.5	38.5	38.5	38.5	38.5	38.5
GE 4500		17.8	20.7	24.1	27.0	29.9	33.3	33.3	34.5	39.1	40.8	40.8	40.8	40.8	40.8	40.8
GE 4000		24.1	27.0	30.5	33.3	36.2	39.7	39.7	40.8	45.4	47.1	47.1	47.1	47.1	47.1	47.1
GE 3500		29.9	32.8	37.4	40.2	43.7	47.1	47.1	48.3	52.9	54.6	54.6	54.6	54.6	54.6	54.6
GE 3000		37.4	41.4	48.3	51.1	54.6	58.0	58.0	59.2	63.8	66.1	66.1	66.1	66.1	66.1	66.1
GE 2500		40.8	46.0	53.4	56.3	59.8	63.2	63.2	64.4	69.0	71.3	71.3	71.3	71.3	71.3	71.3
GE 2000		46.0	51.7	62.1	64.9	68.4	74.1	74.1	75.3	79.9	82.8	82.8	82.8	82.8	82.8	82.8
GE 1800		46.0	51.7	62.1	65.5	69.0	74.7	74.7	75.9	80.5	83.3	83.3	83.3	83.3	83.3	83.3
GE 1500		47.1	52.9	63.8	67.8	71.3	77.0	77.0	78.2	83.3	86.2	86.2	86.2	86.2	86.2	86.2
GE 1200		48.9	54.6	67.8	71.8	75.3	82.2	82.2	83.3	89.1	92.0	92.0	92.0	92.0	92.0	92.0
GE 1000		48.9	54.6	69.0	73.0	76.4	83.3	83.3	84.5	90.2	93.1	93.1	94.8	94.8	94.8	94.8
GE 900		48.9	54.6	69.0	73.0	76.4	83.3	83.9	85.1	90.8	93.7	93.7	95.4	95.4	95.4	95.4
GE 800		48.9	54.6	69.0	73.0	77.0	83.9	85.1	86.2	92.0	94.8	94.8	96.6	96.6	96.6	96.6
GE 700		48.9	54.6	69.5	73.6	77.6	84.5	85.6	87.9	93.7	96.6	96.6	98.3	98.3	98.3	98.3
GE 600		48.9	54.6	69.5	73.6	78.2	85.1	86.2	88.5	95.4	98.3	98.3	100.0	100.0	100.0	100.0
GE 500		48.9	54.6	69.5	73.6	78.2	85.1	86.2	88.5	95.4	98.3	98.3	100.0	100.0	100.0	100.0
GE 400		48.9	54.6	69.5	73.6	78.2	85.1	86.2	88.5	95.4	98.3	98.3	100.0	100.0	100.0	100.0
GE 300		48.9	54.6	69.5	73.6	78.2	85.1	86.2	88.5	95.4	98.3	98.3	100.0	100.0	100.0	100.0
GE 200		48.9	54.6	69.5	73.6	78.2	85.1	86.2	88.5	95.4	98.3	98.3	100.0	100.0	100.0	100.0
GE 100		48.9	54.6	69.5	73.6	78.2	85.1	86.2	88.5	95.4	98.3	98.3	100.0	100.0	100.0	100.0
GE 0		48.9	54.6	69.5	73.6	78.2	85.1	86.2	88.5	95.4	98.3	98.3	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 174

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HAHAU AAF GERMANY PERIOD OF RECORD: 77-86
MONTH: JAN HOURS(LST): ALL

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		11.9	12.8	16.8	18.4	19.1	20.5	21.2	21.4	22.0	22.1	22.1	22.1	22.1	22.1	22.1
GE 20000		14.6	15.6	20.0	21.9	22.6	24.2	24.9	25.2	26.1	26.1	26.1	26.2	26.2	26.2	26.2
GE 18000		14.9	15.9	20.4	22.3	23.0	24.6	25.4	25.7	26.6	26.7	26.7	26.7	26.7	26.7	26.7
GE 16000		14.9	15.9	20.4	22.3	23.0	24.6	25.4	25.7	26.6	26.7	26.7	26.7	26.7	26.7	26.7
GE 14000		15.0	16.0	20.5	22.4	23.1	24.8	25.5	25.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8
GE 12000		15.6	16.6	21.1	23.0	23.8	25.4	26.1	26.4	27.4	27.4	27.4	27.5	27.5	27.5	27.5
GE 10000		15.7	17.8	22.5	24.5	25.2	26.9	27.7	27.9	29.0	29.0	29.0	29.0	29.0	29.0	29.0
GE 9000		17.8	18.9	23.8	25.7	26.5	28.2	28.9	29.2	30.3	30.3	30.3	30.3	30.3	30.3	30.3
GE 8000		20.2	21.4	26.8	28.9	29.7	31.5	32.3	32.9	34.0	34.2	34.3	34.4	34.4	34.4	34.4
GE 7000		21.4	22.6	28.3	30.5	31.3	33.2	34.0	34.8	36.1	36.4	36.6	36.6	36.6	36.6	36.6
GE 6000		21.6	22.8	28.5	30.8	31.6	33.4	34.3	35.1	36.4	36.6	36.9	36.9	36.9	36.9	36.9
GE 5000		24.0	25.6	32.5	34.9	35.8	37.6	38.6	39.6	41.0	41.3	41.5	41.6	41.6	41.6	41.6
GE 4500		25.5	27.2	34.7	37.3	38.1	40.1	41.2	42.2	43.9	44.2	44.4	44.5	44.5	44.5	44.5
GE 4000		29.5	31.3	39.3	41.9	42.7	44.9	46.1	47.2	48.9	49.2	49.4	49.5	49.5	49.5	49.5
GE 3500		32.3	34.3	42.8	45.7	46.7	49.1	50.4	51.5	53.4	53.7	54.0	54.0	54.0	54.0	54.0
GE 3000		37.4	39.9	50.4	53.8	54.8	57.5	58.8	60.0	61.9	62.2	62.6	62.7	62.7	62.7	62.7
GE 2500		40.7	43.5	54.8	58.6	59.7	62.7	64.1	65.2	67.2	67.5	67.9	68.0	68.0	68.0	68.0
GE 2000		45.9	49.7	62.8	66.8	68.1	71.7	73.6	74.8	76.8	77.3	77.7	77.8	77.9	77.9	77.9
GE 1800		46.9	50.7	64.2	68.6	70.0	73.7	75.6	76.9	79.0	79.4	79.8	79.9	80.0	80.0	80.0
GE 1500		48.6	52.7	67.4	72.3	73.9	78.2	80.2	81.5	83.9	84.4	84.9	85.0	85.1	85.1	85.1
GE 1200		49.9	54.1	69.9	75.4	77.0	82.0	84.2	85.8	88.3	88.9	89.4	89.5	89.6	89.6	89.6
GE 1000		50.3	54.6	70.8	76.4	78.1	83.4	85.8	87.5	90.1	90.9	91.4	91.6	91.7	91.7	91.7
GE 900		50.5	54.7	71.3	76.9	78.6	84.3	86.9	88.6	91.3	92.1	92.6	92.9	93.0	93.1	93.1
GE 800		50.6	54.8	71.7	77.5	79.2	85.2	88.1	90.0	92.9	93.7	94.3	94.6	94.7	94.8	94.8
GE 700		50.6	54.8	71.8	77.7	79.5	85.6	88.8	90.8	93.8	94.6	95.1	95.5	95.6	95.8	95.8
GE 600		50.6	54.8	71.9	77.8	79.6	85.9	89.4	91.4	94.6	95.4	96.0	96.3	96.5	96.7	96.7
GE 500		50.6	54.9	72.0	78.0	79.8	86.2	89.7	91.8	95.3	96.4	97.0	97.5	97.8	98.0	98.0
GE 400		50.6	54.9	72.0	78.0	79.8	86.2	89.8	91.9	95.7	96.9	97.5	98.1	98.6	99.0	99.0
GE 300		50.6	54.9	72.0	78.0	79.8	86.2	89.8	91.9	95.8	97.0	97.6	98.3	99.0	99.3	99.3
GE 200		50.6	54.9	72.0	78.0	79.8	86.2	89.8	91.9	95.8	97.0	97.6	98.5	99.1	99.5	99.5
GE 100		50.6	54.9	72.0	78.0	79.8	86.2	89.8	91.9	95.8	97.0	97.6	98.5	99.1	99.5	99.6
GE 0		50.6	54.9	72.1	78.1	79.9	86.3	89.9	92.0	95.9	97.1	97.7	98.6	99.2	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS: 3149

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: FEB HOURS(LST): 0600-0800

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		14.4	14.9	21.1	25.0	26.1	30.5	32.8	33.3	36.2	36.7	37.4	37.4	37.6	37.6	37.6
GE 20000		15.6	16.1	22.5	26.8	28.0	32.8	35.1	35.8	38.8	39.2	39.9	39.9	40.1	40.1	40.1
GE 18000		15.8	16.3	22.7	27.1	28.2	33.0	35.3	36.0	39.0	39.4	40.1	40.1	40.4	40.4	40.4
GE 16000		15.8	16.3	22.7	27.1	28.2	33.0	35.3	36.0	39.0	39.4	40.1	40.1	40.4	40.4	40.4
GE 14000		16.1	16.5	22.9	27.3	28.4	33.3	35.6	36.5	39.4	39.9	40.6	40.6	40.8	40.8	40.8
GE 12000		16.1	16.5	22.9	27.8	28.9	33.7	36.0	37.2	40.1	40.6	41.3	41.3	41.5	41.5	41.5
GE 10000		16.5	17.4	23.9	28.7	30.0	35.1	37.4	38.5	41.5	42.0	42.7	42.7	42.9	42.9	42.9
GE 9000		16.7	17.7	24.1	28.9	30.3	35.3	37.8	39.0	42.0	42.4	43.1	43.1	43.3	43.3	43.3
GE 8000		18.6	20.0	26.8	31.7	33.0	38.8	41.5	42.7	45.6	46.1	46.8	46.8	47.0	47.0	47.0
GE 7000		19.3	20.9	28.0	33.3	34.6	40.4	43.3	44.5	47.5	47.9	48.6	48.6	48.9	48.9	48.9
GE 6000		20.0	21.6	28.7	33.9	35.3	41.1	44.0	45.2	48.2	48.6	49.3	49.3	49.5	49.5	49.5
GE 5000		20.9	22.7	30.5	36.2	37.6	43.6	46.8	47.9	50.9	51.4	52.1	52.1	52.3	52.3	52.3
GE 4500		22.2	24.1	32.6	38.8	40.1	46.6	49.8	50.9	53.9	54.4	55.0	55.0	55.3	55.3	55.3
GE 4000		25.7	27.5	36.2	43.3	44.7	52.1	55.5	56.7	59.9	60.3	61.0	61.0	61.2	61.2	61.2
GE 3500		26.6	28.7	37.8	45.9	47.2	54.8	58.3	59.4	62.6	63.1	63.8	63.8	64.0	64.0	64.0
GE 3000		29.6	32.1	41.7	50.2	52.3	61.2	64.9	66.1	69.5	70.0	70.6	70.6	70.9	70.9	70.9
GE 2500		32.8	35.3	45.4	54.1	56.4	65.8	69.5	70.9	74.3	74.8	75.7	75.7	75.9	75.9	75.9
GE 2000		37.8	40.6	53.2	63.8	66.1	75.9	79.6	81.2	85.1	85.6	86.5	86.7	86.9	86.9	86.9
GE 1800		37.8	40.6	53.4	64.0	66.3	76.4	80.0	81.7	85.6	86.0	86.9	87.2	87.4	87.4	87.4
GE 1500		38.3	41.7	55.0	65.8	68.1	78.2	81.9	83.5	87.4	88.3	89.2	89.4	89.7	89.7	89.7
GE 1200		38.8	42.2	56.9	67.9	70.2	80.7	84.4	86.0	90.1	91.1	92.0	92.2	92.4	92.4	92.4
GE 1000		38.8	42.2	56.9	68.1	70.4	81.2	85.1	86.7	91.1	92.2	93.8	94.0	94.3	94.3	94.3
GE 900		38.8	42.2	56.9	68.1	70.4	81.4	85.6	87.2	91.5	92.7	94.5	95.0	95.2	95.2	95.2
GE 800		38.8	42.2	56.9	68.1	70.4	81.4	85.6	87.2	91.5	92.7	94.5	95.0	95.2	95.2	95.2
GE 700		38.8	42.2	56.9	68.1	70.4	82.1	86.2	88.3	92.7	93.8	95.6	96.1	96.3	96.3	96.3
GE 600		38.8	42.2	57.3	68.6	70.9	82.6	86.7	89.0	93.8	95.0	96.8	97.5	97.7	97.7	97.7
GE 500		38.8	42.2	57.3	68.6	70.9	82.6	86.7	89.0	94.0	95.2	97.0	97.7	97.9	97.9	97.9
GE 400		38.8	42.4	57.6	69.0	71.3	83.0	87.2	89.4	94.5	95.6	97.5	98.2	98.4	98.9	98.9
GE 300		38.8	42.4	57.6	69.0	71.3	83.0	87.2	89.4	94.7	95.9	97.7	98.6	99.1	99.5	99.5
GE 200		38.8	42.4	57.6	69.0	71.3	83.0	87.2	89.4	94.7	95.9	97.7	98.6	99.3	99.8	99.8
GE 100		38.8	42.4	57.6	69.0	71.3	83.0	87.2	89.4	94.7	95.9	97.7	98.6	99.5	100.0	100.0
GE 0		38.8	42.4	57.6	69.0	71.3	83.0	87.2	89.4	94.7	95.9	97.7	98.6	99.5	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 436

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HAHAU AAF GERMANY . PERIOD OF RECORD: 77-86
MONTH: FEB HOURS(LST): 0900-1100

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		16.3	16.8	23.6	27.3	28.0	29.7	32.1	32.6	34.5	34.6	34.6	34.6	34.6	34.6	34.6
GE 20000		18.0	18.5	26.3	30.7	31.6	33.4	36.2	36.7	38.5	38.7	38.7	38.7	38.7	38.7	38.7
GE 18000		18.2	18.7	26.8	31.7	32.6	34.6	37.4	37.9	39.7	39.9	39.9	39.9	39.9	39.9	39.9
GE 16000		18.2	18.7	26.8	31.7	32.6	34.6	37.4	37.9	39.7	39.9	39.9	39.9	39.9	39.9	39.9
GE 14000		19.2	19.7	27.8	32.8	33.6	35.7	38.5	39.0	40.9	41.1	41.1	41.1	41.1	41.1	41.1
GE 12000		19.4	20.0	28.5	33.6	34.5	36.5	39.4	39.9	41.8	41.9	41.9	41.9	41.9	41.9	41.9
GE 10000		19.7	20.5	29.4	34.5	35.3	37.5	40.4	40.9	42.8	43.0	43.0	43.0	43.0	43.0	43.0
GE 9000		20.0	20.9	30.1	35.1	36.0	38.4	41.4	41.9	44.0	44.1	44.1	44.1	44.1	44.1	44.1
GE 8000		22.4	23.3	33.4	39.2	40.2	43.1	46.5	47.2	49.4	49.6	49.6	49.6	49.6	49.6	49.6
GE 7000		23.6	24.4	34.8	40.7	41.8	45.2	48.9	49.6	52.0	52.1	52.1	52.1	52.1	52.1	52.1
GE 6000		23.8	24.6	35.0	40.9	41.9	45.3	49.1	49.7	52.1	52.3	52.3	52.3	52.5	52.5	52.5
GE 5000		25.0	26.0	37.4	43.6	44.7	48.6	52.3	53.0	55.3	55.5	55.5	55.5	55.7	55.7	55.7
GE 4500		26.0	27.2	39.4	46.0	47.0	50.9	54.8	55.5	57.9	58.1	58.1	58.2	58.4	58.4	58.4
GE 4000		28.5	30.1	42.6	50.1	51.1	55.2	59.1	59.8	62.1	62.3	62.3	62.5	62.6	62.6	62.6
GE 3500		30.4	32.1	45.0	52.6	53.7	57.7	61.6	62.6	65.0	65.2	65.2	65.4	65.5	65.5	65.5
GE 3000		34.3	36.5	50.4	59.3	60.4	65.2	69.1	70.1	72.8	73.0	73.0	73.2	73.3	73.3	73.3
GE 2500		35.7	38.4	53.8	63.7	65.0	69.9	74.0	75.0	77.9	78.1	78.1	78.3	78.4	78.4	78.4
GE 2000		38.2	40.9	58.1	68.6	69.9	75.9	80.8	82.0	84.9	85.1	85.1	85.2	85.4	85.4	85.4
GE 1800		38.5	41.3	58.4	69.1	70.5	76.4	81.3	82.5	85.4	85.7	85.7	85.9	86.1	86.1	86.1
GE 1500		39.2	42.1	59.6	71.0	72.3	78.3	83.2	84.6	87.4	87.8	87.8	87.9	88.1	88.1	88.1
GE 1200		39.9	42.8	60.8	72.2	73.5	79.5	84.6	86.2	89.5	90.0	90.0	90.3	90.7	90.7	90.7
GE 1000		40.2	43.3	62.5	74.0	75.7	81.8	87.1	88.8	92.2	93.2	93.2	93.9	94.2	94.2	94.2
GE 900		40.2	43.3	62.6	74.5	76.4	82.5	87.9	89.6	93.2	94.2	94.6	95.2	95.6	95.6	95.6
GE 800		40.4	43.5	62.8	74.7	76.6	82.7	88.1	89.8	93.5	94.6	94.9	95.8	96.1	96.1	96.1
GE 700		40.4	43.5	62.8	74.7	76.6	82.7	88.3	90.2	93.9	95.1	95.4	96.3	96.6	96.6	96.6
GE 600		40.4	43.5	62.8	74.7	76.6	82.9	88.6	90.5	95.1	96.3	96.6	97.6	98.3	98.3	98.3
GE 500		40.4	43.5	62.8	74.7	76.6	82.9	89.0	90.8	95.4	96.6	96.9	98.3	99.2	99.2	99.2
GE 400		40.4	43.5	62.8	74.7	76.6	82.9	89.0	90.8	95.4	96.8	97.1	98.5	99.3	99.3	99.3
GE 300		40.4	43.5	62.8	74.7	76.6	82.9	89.0	90.8	95.4	96.8	97.1	98.8	99.8	99.8	99.8
GE 200		40.4	43.5	62.8	74.7	76.6	82.9	89.0	90.8	95.4	96.8	97.1	98.8	99.8	99.8	99.8
GE 100		40.4	43.5	63.0	74.9	76.7	83.0	89.1	91.0	95.6	96.9	97.3	99.0	100.0	100.0	100.0
GE 0		40.4	43.5	63.0	74.9	76.7	83.0	89.1	91.0	95.6	96.9	97.3	99.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 589

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: FEB HOURS(LST): 1200-1400

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		23.8	24.6	30.4	35.4	35.4	36.8	37.1	37.3	38.3	38.3	38.5	38.8	38.8	38.8	38.8
GE 20000		27.2	28.5	35.4	40.5	40.5	42.2	42.7	42.9	43.9	43.9	44.1	44.1	44.1	44.1	44.1
GE 18000		27.2	28.5	36.8	41.9	41.9	43.8	44.3	44.4	45.5	45.5	45.6	45.6	45.6	45.6	45.6
GE 16000		27.2	28.5	36.8	41.9	41.9	43.8	44.3	44.4	45.5	45.5	45.6	45.6	45.6	45.6	45.6
GE 14000		27.2	28.5	36.8	41.9	41.9	43.8	44.3	44.4	45.5	45.5	45.6	45.6	45.6	45.6	45.6
GE 12000		27.2	28.5	37.1	42.4	42.4	44.3	44.8	45.0	46.0	46.0	46.2	46.2	46.2	46.2	46.2
GE 10000		27.7	29.1	38.1	43.6	43.8	45.6	46.2	46.3	47.4	47.4	47.5	47.5	47.5	47.5	47.5
GE 9000		28.7	30.1	39.7	45.3	45.5	47.4	47.9	48.0	49.1	49.1	49.2	49.2	49.2	49.2	49.2
GE 8000		30.3	31.8	42.7	48.7	49.2	51.5	52.0	52.1	53.2	53.2	53.3	53.3	53.3	53.3	53.3
GE 7000		31.3	33.0	44.6	50.8	51.3	53.8	54.4	54.5	55.6	55.6	55.7	55.7	55.7	55.7	55.7
GE 6000		31.8	33.5	45.1	51.3	51.8	54.4	54.9	55.0	56.1	56.1	56.2	56.2	56.2	56.2	56.2
GE 5000		33.8	35.6	48.4	55.3	55.7	58.5	59.0	59.1	60.2	60.2	60.3	60.3	60.3	60.3	60.3
GE 4500		35.2	36.9	50.1	56.8	57.4	60.2	60.7	61.0	62.1	62.1	62.2	62.2	62.2	62.2	62.2
GE 4000		38.5	40.2	53.7	60.7	61.5	64.3	64.8	65.1	66.2	66.2	66.3	66.3	66.3	66.3	66.3
GE 3500		41.0	42.7	56.6	63.6	64.4	67.2	67.7	68.0	69.1	69.1	69.2	69.2	69.2	69.2	69.2
GE 3000		45.6	47.7	63.1	70.4	71.3	74.0	74.5	74.9	76.1	76.1	76.2	76.4	76.4	76.4	76.4
GE 2500		47.0	49.1	65.3	73.3	73.8	77.1	77.8	78.1	79.5	79.7	79.8	80.0	80.0	80.0	80.0
GE 2000		50.3	52.3	69.6	78.1	79.0	82.9	84.1	84.6	86.0	86.2	86.3	86.5	86.5	86.5	86.5
GE 1800		50.6	52.6	69.9	78.5	79.3	83.2	84.4	85.3	86.8	87.0	87.2	87.4	87.4	87.4	87.4
GE 1500		52.0	54.0	71.6	80.7	81.5	85.8	87.2	88.0	89.6	89.9	90.1	90.3	90.3	90.3	90.3
GE 1200		52.3	54.4	72.3	82.1	82.9	87.4	88.7	89.6	91.5	91.8	92.0	92.1	92.1	92.1	92.1
GE 1000		52.8	54.9	73.7	83.4	84.6	89.4	90.9	92.3	94.4	94.9	95.2	95.6	95.6	95.6	95.6
GE 900		52.8	54.9	73.7	83.4	84.6	89.6	91.1	92.8	94.8	95.0	95.4	95.9	96.1	96.1	96.1
GE 800		52.8	54.9	73.8	83.6	84.8	89.7	91.3	92.6	94.7	95.2	95.7	96.2	96.4	96.4	96.4
GE 700		52.8	54.9	73.9	83.6	84.8	89.7	91.8	93.2	95.2	95.7	96.2	96.8	96.9	96.9	96.9
GE 600		53.0	55.0	74.0	83.8	85.0	89.9	91.6	93.3	95.4	95.9	96.4	97.3	97.4	97.4	97.4
GE 500		53.0	55.0	74.0	83.8	85.0	90.1	91.8	93.5	95.6	96.1	96.6	98.1	98.3	98.3	98.3
GE 400		53.0	55.0	74.0	83.8	85.0	90.3	92.1	93.8	96.1	96.6	97.3	98.8	99.0	99.0	99.0
GE 300		53.0	55.0	74.0	83.8	85.0	90.3	92.1	93.8	96.2	96.8	97.4	99.0	99.7	99.7	99.7
GE 200		53.0	55.0	74.0	83.8	85.0	90.3	92.1	93.8	96.2	96.8	97.4	99.0	99.8	99.8	99.8
GE 100		53.0	55.0	74.0	83.8	85.0	90.3	92.1	93.8	96.2	96.8	97.4	99.0	100.0	100.0	100.0
GE 0		53.0	55.0	74.0	83.8	85.0	90.3	92.1	93.8	96.2	96.8	97.4	99.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 505

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HAHAU AAF GERMANY PERIOD OF RECORD: 77-86
MONTH: FEB HOURS(LST): 1500-1700

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 49	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		24.6	25.6	33.1	35.0	35.3	36.7	36.7	36.7	37.4	37.4	37.7	37.7	37.7	37.7	37.7
GE 20000		27.3	28.5	37.7	39.7	40.1	41.8	41.8	41.8	42.4	42.4	42.8	42.8	42.8	42.8	42.8
GE 18000		29.2	29.4	39.4	41.6	42.1	44.3	44.3	44.3	45.0	45.0	45.3	45.3	45.3	45.3	45.3
GE 16000		28.2	29.4	39.4	41.6	42.1	44.3	44.3	44.3	45.0	45.0	45.3	45.3	45.3	45.3	45.3
GE 14000		28.5	29.7	39.9	42.1	42.6	44.8	44.8	44.8	45.5	45.5	45.8	45.8	45.8	45.8	45.8
GE 12000		29.2	30.4	40.7	43.0	43.5	45.7	45.7	45.7	46.3	46.3	46.7	46.7	46.7	46.7	46.7
GE 10000		30.2	31.4	42.3	44.5	45.0	47.4	47.4	47.4	48.0	48.0	48.4	48.4	48.4	48.4	48.4
GE 9000		30.7	31.9	43.5	45.7	46.5	48.9	48.9	48.9	49.6	49.6	49.9	49.9	49.9	49.9	49.9
GE 8000		32.0	34.0	46.0	48.2	49.2	51.6	51.6	51.6	52.3	52.3	52.6	52.6	52.6	52.6	52.6
GE 7000		33.6	34.8	48.4	50.8	51.8	54.2	54.2	54.2	54.8	54.8	55.2	55.2	55.2	55.2	55.2
GE 6000		33.8	35.0	48.7	51.1	52.1	54.5	54.5	54.5	55.2	55.2	55.5	55.5	55.5	55.5	55.5
GE 5000		35.1	36.5	51.4	54.0	55.2	57.6	57.6	57.6	58.2	58.2	58.6	58.6	58.6	58.6	58.6
GE 4500		36.2	37.7	53.1	55.7	56.9	59.3	59.3	59.3	59.9	59.9	60.3	60.3	60.3	60.3	60.3
GE 4000		41.9	43.8	60.1	63.8	65.2	67.6	67.6	67.6	68.3	68.3	68.6	68.6	68.6	68.6	68.6
GE 3500		45.0	47.0	64.0	67.7	69.1	71.6	71.6	71.6	72.8	72.8	72.8	72.8	72.8	72.8	72.8
GE 3000		49.1	51.4	70.1	74.7	76.4	79.1	79.6	79.8	80.5	80.5	80.8	80.8	80.8	80.8	80.8
GE 2500		51.4	53.8	73.0	78.3	80.0	82.7	83.2	83.5	84.2	84.2	84.6	84.6	84.6	84.6	84.6
GE 2000		53.5	56.0	76.7	83.4	85.1	88.1	89.0	90.2	91.2	91.2	91.5	91.5	91.5	91.5	91.5
GE 1800		53.8	56.5	77.4	84.3	85.7	88.8	89.6	90.8	91.9	91.9	92.2	92.2	92.2	92.2	92.2
GE 1500		54.2	57.0	78.6	85.2	86.9	90.2	91.2	92.4	93.9	94.1	94.4	94.4	94.4	94.4	94.4
GE 1200		54.2	57.0	80.0	86.6	88.3	91.7	92.7	93.9	95.4	95.6	95.9	95.9	95.9	95.9	95.9
GE 1000		54.5	57.4	80.6	87.3	89.0	92.4	93.7	94.9	96.6	96.8	97.1	97.1	97.1	97.1	97.1
GE 900		54.5	57.4	80.6	87.3	89.0	92.4	93.9	95.1	96.8	96.9	97.3	97.3	97.3	97.3	97.3
GE 800		54.5	57.4	80.6	87.4	89.1	92.5	94.2	95.4	97.1	97.3	97.6	97.6	97.6	97.6	97.6
GE 700		54.5	57.4	80.6	87.4	89.1	92.5	94.4	95.6	97.3	97.6	98.0	98.3	98.5	98.5	98.5
GE 600		54.5	57.4	80.6	87.4	89.1	92.5	94.4	95.6	97.3	97.6	98.0	98.3	98.5	98.5	98.5
GE 500		54.5	57.4	80.6	87.4	89.1	92.5	94.6	95.8	97.5	98.0	98.3	99.3	99.8	99.8	99.8
GE 400		54.5	57.4	80.6	87.4	89.1	92.5	94.6	95.8	97.5	98.0	98.3	99.3	99.8	99.8	99.8
GE 300		54.5	57.4	80.6	87.4	89.1	92.5	94.6	95.8	97.5	98.0	98.3	99.3	100.0	100.0	100.0
GE 200		54.5	57.4	80.6	87.4	89 1	92.5	94.6	95.8	97.5	98.0	98.3	99.3	100.0	100.0	100.0
GE 100		54.5	57.4	80.6	87.4	89.1	92.5	94.6	95.8	97.5	98.0	98.3	99.3	100.0	100.0	100.0
GE 0		54.5	57.4	80.6	87.4	89.1	92.5	94.6	95.8	97.5	98.0	98.3	99.3	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 589

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: FEB HOURS(LST): 1800-2000

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		23.0	24.3	32.9	35.9	37.0	39.4	40.5	40.5	40.9	41.3	41.3	41.3	41.3	41.3	41.3
GE 20000		25.8	27.3	38.5	41.4	43.1	45.7	46.8	46.8	47.2	47.6	47.6	47.6	47.6	47.6	47.6
GE 18000		25.8	27.3	38.5	41.4	43.1	45.7	46.8	46.8	47.6	48.3	48.3	48.3	48.3	48.3	48.3
GE 16000		25.8	27.3	38.5	41.4	43.1	45.7	46.8	46.8	47.6	48.3	48.3	48.3	48.3	48.3	48.3
GE 14000		25.8	27.3	38.5	41.4	43.1	45.7	46.8	46.8	47.6	48.3	48.3	48.3	48.3	48.3	48.3
GE 12000		25.8	27.3	38.5	41.4	43.1	45.7	46.8	46.8	47.6	48.3	48.3	48.3	48.3	48.3	48.3
GE 10000		27.3	28.8	40.9	43.9	45.5	48.1	49.3	49.3	50.0	50.7	50.7	50.7	50.7	50.7	50.7
GE 9000		27.3	28.8	41.4	44.4	46.1	48.7	49.8	49.8	50.6	51.3	51.3	51.3	51.3	51.3	51.3
GE 8000		29.0	30.5	43.7	46.8	48.7	51.3	52.6	52.6	53.5	54.5	54.5	54.5	54.5	54.5	54.5
GE 7000		29.7	31.2	44.6	47.8	49.6	52.2	53.5	53.5	54.5	55.4	55.4	55.4	55.4	55.4	55.4
GE 6000		29.7	31.2	44.8	48.0	49.8	52.4	53.7	53.7	54.6	55.6	55.6	55.6	55.6	55.6	55.6
GE 5000		30.9	32.3	46.8	50.0	51.9	54.5	56.3	56.3	57.2	58.2	58.2	58.2	58.2	58.2	58.2
GE 4500		32.0	33.6	50.0	53.9	55.8	58.4	60.2	60.2	61.3	62.3	62.3	62.3	62.3	62.3	62.3
GE 4000		38.1	39.8	57.2	62.5	64.9	67.7	69.9	69.9	71.4	72.3	72.3	72.5	72.5	72.5	72.5
GE 3500		40.3	42.2	60.4	65.8	68.4	71.2	73.6	73.6	75.3	76.2	76.2	76.4	76.4	76.4	76.4
GE 3000		44.6	46.5	68.0	73.9	77.0	80.1	82.5	82.5	84.2	85.1	85.1	85.3	85.3	85.3	85.3
GE 2500		45.5	47.6	70.6	77.1	80.3	83.5	85.9	85.9	87.5	88.5	88.5	88.7	88.7	88.7	88.7
GE 2000		46.5	48.5	72.3	78.8	82.7	86.4	89.0	89.0	91.4	92.4	92.8	92.9	92.9	92.9	92.9
GE 1800		47.0	49.1	72.9	79.4	83.3	87.2	89.8	89.8	92.2	93.1	93.5	93.7	93.7	93.7	93.7
GE 1500		47.0	49.3	73.4	79.9	83.8	88.1	90.9	90.9	93.5	94.4	94.8	95.4	95.4	95.4	95.4
GE 1200		47.4	49.6	75.5	82.2	86.1	90.5	93.7	93.7	96.3	97.2	97.6	98.1	98.1	98.1	98.1
GE 1000		47.4	49.6	75.7	82.5	86.4	90.9	94.1	94.1	96.7	97.6	98.0	98.5	98.5	98.5	98.5
GE 900		47.4	49.6	75.7	82.5	86.4	90.9	94.1	94.1	96.7	97.6	98.0	98.5	98.5	98.5	98.5
GE 800		47.4	49.6	75.7	82.5	86.4	90.9	94.1	94.1	96.8	97.8	98.1	98.9	98.9	98.9	98.9
GE 700		47.4	49.6	75.7	82.5	86.4	90.9	94.1	94.1	96.8	97.8	98.1	98.9	98.9	98.9	98.9
GE 600		47.4	49.6	75.7	82.5	86.4	90.9	94.1	94.1	97.0	98.0	98.3	99.1	99.3	99.3	99.3
GE 500		47.4	49.6	75.7	82.5	86.4	90.9	94.1	94.1	97.0	98.0	98.7	99.6	99.8	99.8	99.8
GE 400		47.4	49.6	75.7	82.5	86.4	90.9	94.1	94.1	97.0	98.0	98.7	99.6	99.8	99.8	99.8
GE 300		47.4	49.6	75.7	82.5	86.4	90.9	94.1	94.1	97.0	98.0	98.7	99.6	99.8	99.8	99.8
GE 200		47.4	49.6	75.7	82.5	86.4	90.9	94.1	94.1	97.0	98.0	98.7	99.6	100.0	100.0	100.0
GE 100		47.4	49.6	75.7	82.5	86.4	90.9	94.1	94.1	97.0	98.0	98.7	99.6	100.0	100.0	100.0
GE 0		47.4	49.6	75.7	82.5	86.4	90.9	94.1	94.1	97.0	98.0	98.7	99.6	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 538

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HAHAU AAF GERMANY PERIOD OF RECORD: 79-86
MONTH: FEB HOURS(LST): 2100-2300

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		25.1	25.7	36.3	44.1	46.9	48.0	51.4	51.4	52.5	54.2	54.2	54.2	54.2	54.2	54.2
GE 20000		25.7	26.3	41.3	49.7	52.5	53.6	57.0	57.0	58.1	59.8	59.8	59.8	59.8	59.8	59.8
GE 18000		25.7	26.3	41.3	49.7	52.5	53.6	57.0	57.0	58.1	60.3	60.3	60.3	60.3	60.3	60.3
GE 16000		25.7	26.3	41.3	49.7	52.5	53.6	57.0	57.0	58.1	60.3	60.3	60.3	60.3	60.3	60.3
GE 14000		25.7	26.3	41.3	49.7	52.5	53.6	57.0	57.0	58.1	60.3	60.3	60.3	60.3	60.3	60.3
GE 12000		25.7	26.3	41.3	49.7	52.5	53.6	57.0	57.0	58.1	60.3	60.3	60.3	60.3	60.3	60.3
GE 10000		26.8	27.4	42.5	50.8	53.6	54.7	58.1	58.1	59.2	61.5	61.5	61.5	61.5	61.5	61.5
GE 9000		26.8	27.4	43.0	51.4	54.2	55.3	58.7	58.7	59.8	62.0	62.0	62.0	62.0	62.0	62.0
GE 8000		27.9	28.5	45.3	54.7	57.5	58.7	62.0	62.0	63.1	65.4	65.4	65.4	65.4	65.4	65.4
GE 7000		29.1	29.6	46.4	55.9	58.7	59.8	63.1	63.1	64.2	66.5	66.5	66.5	66.5	66.5	66.5
GE 6000		29.1	29.6	46.4	55.9	58.7	59.8	63.1	63.1	64.2	66.5	66.5	66.5	66.5	66.5	66.5
GE 5000		30.2	30.7	49.7	59.2	62.6	63.7	67.6	67.6	69.3	71.5	71.5	71.5	71.5	71.5	71.5
GE 4500		31.8	32.4	51.4	60.9	64.2	65.4	69.3	69.3	70.9	73.2	73.2	73.2	73.2	73.2	73.2
GE 4000		34.6	35.8	54.7	65.4	70.4	71.5	75.4	75.4	77.1	79.3	79.3	79.3	79.3	79.3	79.3
GE 3500		35.2	36.3	56.4	67.0	73.2	74.3	79.3	79.3	82.1	84.4	84.4	84.4	84.4	84.4	84.4
GE 3000		35.8	36.9	60.3	70.9	79.3	80.4	85.5	85.5	88.3	90.5	90.5	90.5	90.5	90.5	90.5
GE 2500		36.9	38.0	62.6	74.3	83.8	84.9	89.9	89.9	92.7	95.0	95.0	95.0	95.0	95.0	95.0
GE 2000		36.9	38.0	63.7	75.4	84.9	86.0	91.1	91.1	93.9	96.1	96.6	96.6	96.6	96.6	96.6
GE 1800		36.9	38.0	63.7	75.4	84.9	86.0	91.1	91.1	93.9	96.1	96.6	96.6	96.6	96.6	96.6
GE 1500		36.9	38.5	64.8	76.5	86.0	87.2	92.2	92.2	95.0	97.2	97.8	97.8	97.8	97.8	97.8
GE 1200		36.9	38.5	65.4	77.1	86.6	88.3	93.9	93.9	96.6	98.9	99.4	99.4	99.4	99.4	99.4
GE 1000		36.9	38.5	65.4	77.1	86.6	88.3	93.9	93.9	96.6	98.9	99.4	99.4	99.4	99.4	99.4
GE 900		36.9	38.5	65.4	77.1	86.6	88.3	93.9	93.9	96.6	98.9	99.4	99.4	99.4	99.4	99.4
GE 800		36.9	38.5	65.4	77.1	86.6	88.3	93.9	93.9	97.2	99.4	100.0	100.0	100.0	100.0	100.0
GE 700		36.9	38.5	65.4	77.1	86.6	88.3	93.9	93.9	97.2	99.4	100.0	100.0	100.0	100.0	100.0
GE 600		36.9	38.5	65.4	77.1	86.6	88.3	93.9	93.9	97.2	99.4	100.0	100.0	100.0	100.0	100.0
GE 500		36.9	38.5	65.4	77.1	86.6	88.3	93.9	93.9	97.2	99.4	100.0	100.0	100.0	100.0	100.0
GE 400		36.9	38.5	65.4	77.1	86.6	88.3	93.9	93.9	97.2	99.4	100.0	100.0	100.0	100.0	100.0
GE 300		36.9	38.5	65.4	77.1	86.6	88.3	93.9	93.9	97.2	99.4	100.0	100.0	100.0	100.0	100.0
GE 200		36.9	38.5	65.4	77.1	86.6	88.3	93.9	93.9	97.2	99.4	100.0	100.0	100.0	100.0	100.0
GE 100		36.9	38.5	65.4	77.1	86.6	88.3	93.9	93.9	97.2	99.4	100.0	100.0	100.0	100.0	100.0
GE 0		36.9	38.5	65.4	77.1	86.6	88.3	93.9	93.9	97.2	99.4	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 179

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 77-86
MONTH: FEB HOURS(LST): ALL

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		21.0	21.8	29.0	32.8	33.5	35.6	36.9	37.1	38.4	38.6	38.9	38.9	38.9	38.9	38.9
GE 20000		23.3	24.3	33.0	37.1	38.0	40.3	41.7	41.9	43.2	43.5	43.7	43.7	43.8	43.8	43.8
GE 18000		23.5	24.5	33.8	38.0	38.9	41.4	42.8	43.0	44.4	44.8	45.0	45.0	45.0	45.0	45.0
GE 16000		23.5	24.5	33.8	38.0	38.9	41.4	42.8	43.0	44.4	44.8	45.0	45.0	45.0	45.0	45.0
GE 14000		23.8	24.8	34.1	38.3	39.2	41.7	43.2	43.4	44.8	45.2	45.4	45.4	45.4	45.4	45.4
GE 12000		24.0	25.0	34.5	38.8	39.7	42.2	43.7	44.0	45.4	45.7	46.0	46.0	46.0	46.0	46.0
GE 10000		24.8	25.9	35.8	40.2	41.2	43.8	45.2	45.5	46.9	47.3	47.5	47.5	47.5	47.5	47.5
GE 9000		25.2	26.3	36.7	41.1	42.1	44.8	46.3	46.6	48.0	48.4	48.6	48.6	48.6	48.6	48.6
GE 8000		27.1	28.3	39.5	44.2	45.4	48.3	50.0	50.3	51.8	52.2	52.4	52.4	52.4	52.4	52.4
GE 7000		28.0	29.3	41.0	45.9	47.1	50.2	52.0	52.3	53.8	54.2	54.4	54.4	54.5	54.5	54.5
GE 6000		28.3	29.6	41.4	46.2	47.5	50.5	52.3	52.6	54.1	54.6	54.8	54.8	54.8	54.8	54.8
GE 5000		29.6	31.0	43.9	49.0	50.4	53.6	55.6	55.9	57.4	57.9	58.1	58.1	58.1	58.1	58.1
GE 4500		30.8	32.3	46.0	51.4	52.7	56.1	58.0	58.4	60.0	60.4	60.6	60.6	60.7	60.7	60.7
GE 4000		34.9	36.6	50.9	57.2	58.8	62.3	64.4	64.8	66.5	66.9	67.1	67.1	67.2	67.2	67.2
GE 3500		37.0	38.9	53.6	60.2	61.9	65.5	67.7	68.1	69.9	70.3	70.5	70.6	70.7	70.7	70.7
GE 3000		40.8	43.0	59.5	66.7	68.8	72.9	75.1	75.7	77.6	78.0	78.2	78.3	78.4	78.4	78.4
GE 2500		42.6	44.9	62.4	70.2	72.5	76.7	79.1	79.7	81.7	82.1	82.3	82.4	82.5	82.5	82.5
GE 2000		45.1	47.4	66.4	75.1	77.5	82.3	85.1	85.9	88.2	88.6	89.0	89.1	89.2	89.2	89.2
GE 1800		45.4	47.8	66.8	75.5	77.9	82.9	85.6	86.5	88.8	89.3	89.6	89.7	89.8	89.8	89.8
GE 1500		46.0	48.6	68.0	77.0	79.5	84.5	87.4	88.3	90.7	91.4	91.7	91.9	92.0	92.0	92.0
GE 1200		46.3	48.9	69.4	78.6	81.0	86.3	89.3	90.3	92.9	93.5	93.9	94.1	94.2	94.2	94.2
GE 1000		46.5	49.2	70.2	79.5	82.0	87.4	90.6	91.7	94.4	95.3	95.7	96.1	96.2	96.2	96.2
GE 900		46.5	49.2	70.2	79.6	82.2	87.7	90.9	92.0	94.8	95.6	96.2	96.6	96.7	96.7	96.7
GE 800		46.6	49.2	70.3	79.7	82.3	87.8	91.0	92.1	95.0	95.9	96.5	96.9	97.1	97.1	97.1
GE 700		46.6	49.2	70.3	79.7	82.3	87.9	91.3	92.5	95.4	96.3	96.9	97.5	97.6	97.6	97.6
GE 600		46.6	49.2	70.4	79.8	82.4	88.0	91.4	92.7	95.9	96.8	97.4	98.1	98.4	98.4	98.4
GE 500		46.6	49.2	70.4	79.8	82.4	88.0	91.6	92.9	96.1	97.0	97.7	98.7	99.1	99.1	99.1
GE 400		46.6	49.3	70.4	79.8	82.4	88.1	91.7	93.0	96.2	97.2	97.9	99.0	99.3	99.4	99.4
GE 300		46.6	49.3	70.4	79.8	82.4	88.1	91.7	93.0	96.3	97.3	98.0	99.1	99.7	99.8	99.8
GE 200		46.6	49.3	70.4	79.8	82.4	88.1	91.7	93.0	96.3	97.3	98.0	99.1	99.8	99.9	99.9
GE 100		46.6	49.3	70.4	79.9	82.5	88.2	91.7	93.0	96.3	97.3	98.0	99.2	99.9	100.0	100.0
GE 0		46.6	49.3	70.4	79.9	82.5	88.2	91.7	93.0	96.3	97.3	98.0	99.2	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 2916

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: MAR HOURS(LST): 0600-0800

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		12.7	12.9	15.9	17.7	18.5	20.0	20.6	20.6	23.2	23.4	23.8	24.0	24.2	24.2	24.2
GE 20000		16.5	17.1	20.4	22.2	23.0	24.4	25.0	25.0	27.6	27.8	28.2	28.6	28.8	28.8	28.8
GE 18000		16.7	17.3	20.8	22.6	23.4	24.8	25.4	25.4	28.0	28.2	28.6	29.0	29.2	29.2	29.2
GE 16000		16.7	17.3	20.8	22.6	23.4	24.8	25.4	25.4	28.0	28.2	28.6	29.0	29.2	29.2	29.2
GE 14000		16.7	17.3	21.0	22.8	23.6	25.4	26.0	26.0	28.6	28.8	29.2	29.6	29.8	29.8	29.8
GE 12000		17.3	17.9	22.0	23.8	24.6	26.4	27.2	27.2	30.0	30.2	30.6	31.0	31.3	31.3	31.3
GE 10000		18.3	19.0	23.4	25.4	26.2	28.4	29.4	29.4	32.5	32.7	33.1	33.5	33.7	33.7	33.7
GE 9000		19.0	19.6	24.2	26.2	27.0	29.4	30.8	30.8	33.9	34.1	34.5	34.9	35.1	35.1	35.1
GE 8000		22.2	22.8	27.4	30.2	31.0	33.7	35.3	35.3	38.7	38.9	39.3	39.9	40.3	40.5	40.5
GE 7000		22.6	23.2	28.6	31.9	32.9	35.5	37.7	37.7	41.1	41.3	41.7	42.3	42.7	42.9	42.9
GE 6000		22.8	23.4	28.8	32.1	33.1	35.7	37.9	37.9	41.3	41.5	41.9	42.5	42.9	43.1	43.1
GE 5000		24.4	25.8	31.3	35.7	37.1	39.7	42.3	42.3	46.0	46.2	46.6	47.2	47.6	47.8	47.8
GE 4500		26.6	28.0	33.9	38.7	40.1	43.1	45.8	45.8	49.6	49.8	50.2	50.8	51.2	51.4	51.4
GE 4000		32.3	33.9	40.7	45.8	47.2	50.2	53.2	53.4	57.5	58.1	58.5	59.1	59.5	59.7	59.7
GE 3500		34.3	36.7	44.4	50.0	51.4	54.4	57.5	57.7	61.7	62.3	62.7	63.3	63.7	63.9	63.9
GE 3000		37.7	40.5	48.8	54.6	56.5	59.7	62.9	63.3	67.5	68.1	68.8	69.6	70.0	70.2	70.2
GE 2500		40.7	43.9	52.6	58.9	60.9	64.3	67.7	68.1	72.4	73.0	73.6	74.4	74.8	75.0	75.0
GE 2000		44.6	47.8	59.3	65.5	68.1	72.6	76.6	77.2	82.5	83.1	83.7	84.5	85.1	85.3	85.3
GE 1800		44.8	48.0	59.5	65.7	68.3	72.8	76.8	77.4	82.7	83.3	83.9	84.7	85.3	85.5	85.5
GE 1500		45.8	49.0	61.1	67.5	70.4	75.6	80.4	81.0	86.5	87.5	88.1	88.9	89.5	89.7	89.7
GE 1200		47.2	49.4	61.9	68.8	71.8	77.6	82.7	83.5	89.3	90.5	91.1	91.9	92.7	92.9	92.9
GE 1000		46.6	50.0	63.1	70.0	73.2	79.2	84.3	85.1	91.1	92.3	92.9	93.8	94.8	95.0	95.0
GE 900		46.6	50.0	63.5	70.4	73.6	79.6	84.7	85.5	91.9	93.1	93.8	94.6	95.6	95.8	95.8
GE 800		46.6	50.0	63.5	70.6	73.8	79.8	84.9	85.7	92.1	93.5	94.2	95.0	96.0	96.2	96.6
GE 700		46.6	50.0	63.5	70.8	74.0	80.4	85.5	86.3	92.9	94.6	95.2	96.0	97.0	97.2	97.6
GE 600		46.6	50.0	63.5	70.8	74.0	80.4	85.9	86.7	93.5	95.2	95.8	96.6	97.6	97.8	98.2
GE 500		46.6	50.0	63.5	70.8	74.0	80.4	86.1	86.9	94.0	95.6	96.2	97.0	98.0	98.2	98.6
GE 400		46.6	50.0	63.5	70.8	74.0	80.4	86.1	86.9	94.0	95.6	96.4	97.2	98.2	98.4	98.8
GE 300		46.6	50.0	63.5	70.8	74.0	80.4	86.1	86.9	94.0	95.6	96.4	97.2	98.2	98.4	98.8
GE 200		46.6	50.0	63.5	70.8	74.0	80.4	86.1	86.9	94.0	95.6	96.4	97.2	98.2	98.4	99.4
GE 100		46.6	50.0	63.5	70.8	74.0	80.4	86.1	86.9	94.0	95.6	96.4	97.2	98.2	98.4	100.0
GE 0		46.6	50.0	63.5	70.8	74.0	80.4	86.1	86.9	94.0	95.6	96.4	97.2	98.2	98.4	100.0

TOTAL NUMBER OF OBSERVATIONS: 496

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HAHAU AAF GERMANY PERIOD OF RECORD: 77-86
MONTH: MAR HOURS(LST): 0900-1100

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GE 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	10.6	11.5	16.0	18.1	18.5	20.1	20.9	21.6	21.9	22.4	22.4	22.5	22.5	22.5	22.5	
GE 20000	13.5	14.6	20.0	22.5	22.9	24.9	25.6	26.3	26.8	27.2	27.2	27.4	27.4	27.4	27.4	
GE 18000	14.3	15.3	20.7	23.2	23.7	25.6	26.3	27.1	27.5	27.9	27.9	28.1	28.1	28.1	28.1	
GE 16000	14.3	15.3	20.7	23.2	23.7	25.6	26.3	27.1	27.5	27.9	27.9	28.1	28.1	28.1	28.1	
GE 14000	14.7	15.7	21.5	24.0	24.4	26.3	27.1	27.8	28.2	28.7	28.7	28.8	28.8	28.8	28.8	
GE 12000	15.3	16.5	22.4	24.9	25.3	27.2	28.1	28.8	29.3	29.7	29.7	29.9	29.9	29.9	29.9	
GE 10000	16.3	17.5	24.4	27.4	28.2	30.3	31.2	31.9	32.4	32.8	32.8	32.9	32.9	32.9	32.9	
GE 9000	17.9	19.3	26.5	30.1	31.0	33.2	34.1	34.9	35.3	35.7	35.7	35.9	35.9	35.9	35.9	
GE 8000	19.4	20.7	29.0	33.1	34.1	36.6	37.6	38.5	39.3	39.7	39.7	39.9	39.9	39.9	39.9	
GE 7000	20.9	22.5	31.3	35.7	36.9	39.4	40.6	41.6	42.4	42.8	42.8	42.9	42.9	42.9	42.9	
GE 6000	21.2	22.8	31.9	36.3	37.5	40.0	41.2	42.2	42.9	43.4	43.4	43.5	43.5	43.5	43.5	
GE 5000	23.1	24.9	34.4	39.3	40.7	43.5	44.7	45.7	46.5	46.9	47.1	47.2	47.2	47.2	47.2	
GE 4500	26.0	27.8	37.6	42.9	44.4	47.6	48.8	49.9	50.6	51.0	51.2	51.3	51.3	51.3	51.3	
GE 4000	31.2	32.9	43.5	49.7	51.2	54.7	55.9	57.1	58.1	58.8	59.0	59.1	59.1	59.1	59.1	
GE 3500	34.6	36.3	47.5	53.8	55.3	58.8	60.0	61.2	62.2	62.9	63.1	63.2	63.2	63.2	63.2	
GE 3000	39.9	41.6	54.0	60.9	62.6	66.3	67.6	68.8	69.9	70.6	70.7	70.9	70.9	70.9	70.9	
GE 2500	43.8	45.6	58.5	65.6	67.5	71.5	72.8	74.0	75.3	76.0	76.2	76.3	76.3	76.3	76.3	
GE 2000	49.9	52.4	66.6	74.0	76.0	80.7	82.6	84.0	85.4	86.2	86.3	86.5	86.5	86.5	86.5	
GE 1800	50.3	52.8	67.2	74.6	76.6	81.3	83.4	84.9	86.3	87.1	87.2	87.4	87.4	87.4	87.4	
GE 1500	51.5	54.4	69.7	77.4	79.	84.6	87.4	89.0	90.9	91.8	92.1	92.2	92.2	92.2	92.2	
GE 1200	52.1	55.0	71.3	79.4	81.5	86.8	90.3	91.9	94.3	95.1	95.7	95.9	95.9	95.9	95.9	
GE 1000	52.2	55.3	71.9	80.1	82.2	87.5	91.0	92.6	95.0	95.9	96.5	96.6	96.8	96.8	96.8	
GE 900	52.2	55.3	71.9	80.1	82.2	87.5	91.0	92.6	95.1	96.0	96.6	96.8	96.9	96.9	96.9	
GE 800	52.2	55.3	71.9	80.4	82.5	87.8	91.3	92.9	95.4	96.3	96.9	97.1	97.2	97.2	97.2	
GE 700	52.2	55.3	71.9	80.7	82.8	88.1	91.6	93.2	95.9	96.8	97.4	97.5	97.6	97.6	97.6	
GE 600	52.2	55.3	71.9	80.7	82.8	88.1	91.6	93.2	96.0	96.9	97.5	97.6	97.8	97.8	97.8	
GE 500	52.2	55.3	71.9	80.9	82.9	88.2	91.8	93.4	96.5	97.4	97.9	98.1	98.4	98.5	98.7	
GE 400	52.2	55.3	71.9	80.9	82.9	88.2	91.8	93.4	96.6	97.5	98.1	98.2	98.7	99.0	99.1	
GE 300	52.2	55.3	71.9	80.9	82.9	88.2	91.8	93.4	96.6	97.6	98.2	98.5	99.0	99.3	99.4	
GE 200	52.2	55.3	71.9	80.9	82.9	88.2	91.8	93.4	96.6	97.6	98.2	98.7	99.1	99.7	100.0	
GE 100	52.2	55.3	71.9	80.9	82.9	88.2	91.8	93.4	96.6	97.6	98.2	98.7	99.1	99.7	100.0	
GE 0	52.2	55.3	71.9	80.9	82.9	88.2	91.8	93.4	96.6	97.6	98.2	98.7	99.1	99.7	100.0	

TOTAL NUMBER OF OBSERVATIONS: 680

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: MAR HOURS(LST): 1200-1400

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	≥1 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		15.1	16.0	21.9	22.5	22.8	23.3	23.5	23.5	23.8	23.8	23.8	23.8	23.8	23.8	23.8
GE 20000		20.3	21.1	28.0	28.9	29.1	29.8	30.0	30.0	30.2	30.2	30.2	30.2	30.2	30.2	30.2
GE 18000		20.7	21.6	28.6	29.5	29.7	30.4	30.5	30.5	30.8	30.8	30.8	30.8	30.8	30.8	30.8
GE 16000		20.7	21.6	28.6	29.5	29.7	30.4	30.5	30.5	30.8	30.8	30.8	30.8	30.8	30.8	30.8
GE 14000		21.0	21.9	28.9	29.8	30.0	30.7	30.8	30.8	31.1	31.1	31.1	31.1	31.1	31.1	31.1
GE 12000		22.0	22.9	30.4	31.3	31.4	32.2	32.3	32.3	32.6	32.6	32.6	32.6	32.6	32.6	32.6
GE 10000		23.8	24.8	32.9	33.8	33.9	34.7	34.8	34.8	35.1	35.1	35.1	35.1	35.1	35.1	35.1
GE 9000		24.8	25.8	34.5	35.4	35.5	36.3	36.4	36.4	36.7	36.7	36.7	36.7	36.7	36.7	36.7
GE 8000		27.2	28.3	37.6	38.9	39.1	40.1	40.7	40.7	41.0	41.0	41.0	41.0	41.0	41.0	41.0
GE 7000		28.0	29.4	38.9	40.5	40.7	42.0	42.6	42.6	43.0	43.0	43.0	43.0	43.0	43.0	43.0
GE 6000		28.2	29.5	39.6	41.3	41.4	42.7	43.3	43.3	43.8	43.8	43.8	43.8	43.8	43.8	43.8
GE 5000		29.5	31.3	41.9	43.6	43.8	45.1	45.7	45.7	46.1	46.1	46.1	46.1	46.1	46.1	46.1
GE 4500		32.0	33.8	44.9	46.7	46.8	48.2	48.8	48.8	49.2	49.2	49.2	49.2	49.2	49.2	49.2
GE 4000		38.8	41.1	53.0	54.9	55.1	56.5	57.3	57.3	57.7	57.7	57.7	57.7	57.7	57.7	57.7
GE 3500		44.5	46.8	59.6	61.8	62.0	63.4	64.2	64.2	64.6	64.6	64.6	64.6	64.6	64.6	64.6
GE 3000		54.8	57.6	71.8	74.3	74.9	76.5	77.2	77.2	77.7	77.7	77.7	77.7	77.7	77.7	77.7
GE 2500		58.4	61.7	76.2	78.9	79.6	81.4	82.2	82.2	83.0	83.0	83.0	83.0	83.0	83.0	83.0
GE 2000		63.0	67.0	83.1	86.2	86.9	89.0	89.9	89.9	90.7	91.0	91.0	91.0	91.0	91.0	91.0
GE 1800		63.9	67.8	84.1	87.2	88.0	90.3	91.2	91.2	92.2	92.5	92.5	92.5	92.5	92.5	92.5
GE 1500		65.2	69.3	85.8	89.0	89.7	92.7	93.5	93.5	94.7	95.0	95.0	95.0	95.0	95.0	95.0
GE 1200		66.4	70.5	87.4	90.5	91.5	94.7	96.0	96.0	97.4	97.7	97.7	97.7	97.7	97.7	97.7
GE 1000		66.5	70.6	87.8	91.0	91.9	95.3	96.6	96.6	98.1	98.4	98.4	98.4	98.4	98.4	98.5
GE 900		66.5	70.6	87.8	91.0	91.9	95.3	96.6	96.6	98.1	98.4	98.4	98.5	98.5	98.5	98.7
GE 800		66.5	70.6	87.8	91.0	91.9	95.4	96.8	96.9	98.4	98.7	98.7	98.8	98.8	98.8	99.0
GE 700		66.5	70.6	88.0	91.2	92.1	95.6	97.1	97.2	98.7	99.0	99.0	99.1	99.1	99.1	99.3
GE 600		66.5	70.6	88.0	91.2	92.1	95.6	97.1	97.4	98.8	99.1	99.1	99.3	99.3	99.3	99.4
GE 500		66.5	70.6	88.0	91.2	92.1	95.6	97.1	97.4	98.8	99.1	99.1	99.3	99.4	99.4	99.6
GE 400		66.5	70.6	88.0	91.2	92.1	95.6	97.1	97.4	98.8	99.3	99.3	99.4	99.6	99.6	99.7
GE 300		66.5	70.6	88.0	91.2	92.1	95.6	97.1	97.4	98.8	99.3	99.3	99.4	99.9	99.9	100.0
GE 200		66.5	70.6	88.0	91.2	92.1	95.6	97.1	97.4	98.8	99.3	99.3	99.4	99.9	99.9	100.0
GE 100		66.5	70.6	88.0	91.2	92.1	95.6	97.1	97.4	98.8	99.3	99.3	99.4	99.9	99.9	100.0
GE 0		66.5	70.6	88.0	91.2	92.1	95.6	97.1	97.4	98.8	99.3	99.3	99.4	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS: 681

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10542D STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: MAR HOURS(LST): 1500-1700

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		23.1	24.5	29.2	30.1	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2
GE 20000		28.9	30.5	35.8	37.3	37.4	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6
GE 18000		29.2	30.8	36.3	37.7	37.9	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0
GE 16000		29.2	30.8	36.3	37.7	37.9	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0
GE 14000		29.7	31.3	36.7	38.2	38.3	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5
GE 12000		30.4	32.0	37.9	39.4	39.5	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
GE 10000		32.6	34.2	40.5	42.3	42.4	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
GE 9000		33.6	35.2	42.3	44.1	44.2	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
GE 8000		37.3	38.9	46.4	48.5	48.6	48.8	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2
GE 7000		38.0	39.6	47.6	49.9	50.1	50.2	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
GE 6000		38.3	39.9	48.2	51.0	51.1	51.2	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
GE 5000		41.3	43.5	52.0	55.2	55.4	55.5	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9
GE 4500		44.1	46.3	54.9	58.1	58.4	58.6	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
GE 4000		50.8	53.3	63.0	66.2	66.5	66.7	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
GE 3500		56.5	59.0	70.0	73.3	73.6	73.9	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
GE 3000		64.5	67.1	79.7	83.6	83.8	84.3	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
GE 2500		67.3	70.0	82.7	86.5	87.2	87.7	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
GE 2000		73.0	75.9	88.8	92.7	93.4	93.8	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
GE 1800		73.1	76.1	89.0	93.0	93.7	94.1	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
GE 1500		73.9	76.9	89.9	94.1	94.9	95.7	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
GE 1200		74.2	77.4	90.5	94.9	95.6	96.8	97.2	97.4	97.7	97.7	97.7	97.7	97.7	97.7	97.7
GE 1000		74.2	77.4	90.5	94.9	95.7	96.9	97.4	97.8	98.2	98.2	98.2	98.2	98.2	98.2	98.2
GE 900		74.2	77.4	90.5	94.9	95.7	97.1	97.5	97.9	98.4	98.4	98.4	98.4	98.4	98.4	98.4
GE 800		74.2	77.4	90.5	95.3	96.3	97.7	98.2	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3
GE 700		74.2	77.4	90.5	95.3	96.3	97.7	98.2	98.7	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 600		74.2	77.4	90.5	95.3	96.3	97.7	98.2	98.7	99.6	99.7	99.7	99.7	99.7	99.7	99.7
GE 500		74.2	77.4	90.5	95.3	96.3	97.7	98.2	98.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0
GE 400		74.2	77.4	90.5	95.3	96.3	97.7	98.2	98.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0
GE 300		74.2	77.4	90.5	95.3	96.3	97.7	98.2	98.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0
GE 200		74.2	77.4	90.5	95.3	96.3	97.7	98.2	98.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0
GE 100		74.2	77.4	90.5	95.3	96.3	97.7	98.2	98.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0
GE 0		74.2	77.4	90.5	95.3	96.3	97.7	98.2	98.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 681

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: MAR HOURS(LST): 1800-2000

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		25.7	26.2	31.6	33.1	33.8	35.1	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3
GE 20000		32.8	33.8	39.4	41.4	42.1	43.4	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
GE 18000		32.8	33.8	39.5	41.7	42.4	43.8	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
GE 16000		32.9	34.0	39.7	41.9	42.6	43.9	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
GE 14000		33.4	34.5	40.2	42.4	43.1	44.4	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6
GE 12000		34.1	35.1	41.2	43.4	44.1	45.4	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
GE 10000		36.1	37.3	43.6	45.8	46.5	47.8	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
GE 9000		37.0	38.2	44.8	47.3	48.0	49.3	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5
GE 8000		39.9	41.0	47.8	50.5	51.2	52.5	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
GE 7000		41.0	42.2	49.0	51.7	52.4	53.7	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
GE 6000		41.9	43.1	50.0	53.0	54.1	55.4	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9
GE 5000		47.5	48.8	56.3	59.5	60.6	62.0	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
GE 4500		51.0	52.5	60.6	63.9	65.0	66.4	66.9	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
GE 4000		55.9	57.8	67.2	71.5	72.8	74.5	75.0	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
GE 3500		60.1	62.2	72.0	76.7	78.0	79.7	80.2	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
GE 3000		63.7	65.9	77.4	83.3	84.6	86.3	86.8	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
GE 2500		65.0	67.6	79.9	86.1	87.7	90.2	90.7	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
GE 2000		68.2	70.9	83.6	90.0	91.6	94.4	94.9	95.3	95.9	95.9	95.9	95.9	95.9	95.9	95.9
GE 1800		68.4	71.3	84.0	90.4	91.9	94.8	95.3	95.6	96.3	96.3	96.3	96.3	96.3	96.3	96.3
GE 1500		68.9	71.8	84.5	91.0	92.7	95.6	96.1	96.5	97.1	97.1	97.1	97.1	97.1	97.1	97.1
GE 1200		68.9	71.8	84.6	91.2	93.4	96.3	97.3	97.6	98.3	98.3	98.3	98.3	98.3	98.3	98.3
GE 1000		68.9	71.8	84.8	91.4	93.8	96.6	97.8	98.1	98.8	98.8	98.8	98.8	98.8	98.8	98.8
GE 900		68.9	71.8	84.8	91.4	93.8	96.6	97.8	98.1	98.8	98.8	98.8	98.8	98.8	98.8	98.8
GE 800		68.9	71.8	84.8	91.4	93.8	96.6	97.8	98.5	99.2	99.2	99.2	99.3	99.3	99.3	99.3
GE 700		68.9	71.8	84.8	91.4	93.8	96.6	97.8	98.5	99.3	99.3	99.5	99.7	99.7	99.7	99.7
GE 600		68.9	71.8	84.8	91.4	93.8	96.6	97.8	98.5	99.3	99.7	99.8	100.0	100.0	100.0	100.0
GE 500		68.9	71.8	84.8	91.4	93.8	96.6	97.8	98.5	99.3	99.7	99.8	100.0	100.0	100.0	100.0
GE 400		68.9	71.8	84.8	91.4	93.8	96.6	97.8	98.5	99.3	99.7	99.8	100.0	100.0	100.0	100.0
GE 300		68.9	71.8	84.8	91.4	93.8	96.6	97.8	98.5	99.3	99.7	99.8	100.0	100.0	100.0	100.0
GE 200		68.9	71.8	84.8	91.4	93.8	96.6	97.8	98.5	99.3	99.7	99.8	100.0	100.0	100.0	100.0
GE 100		68.9	71.8	84.8	91.4	93.8	96.6	97.8	98.5	99.3	99.7	99.8	100.0	100.0	100.0	100.0
GE 0		68.9	71.8	84.8	91.4	93.8	96.6	97.8	98.5	99.3	99.7	99.8	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 592

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 77-78,81-86
MONTH: MAR HOURS(LST): 2100-2300

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		26.7	26.7	32.0	36.4	38.7	39.6	40.0	40.0	40.9	40.9	40.9	40.9	40.9	40.9	40.9
GE 20000		28.4	28.4	33.8	38.2	40.4	41.8	42.2	42.2	43.1	43.1	43.1	43.1	43.1	43.1	43.1
GE 18000		28.4	28.4	33.8	38.7	40.9	42.2	42.7	42.7	43.6	43.6	43.6	43.6	43.6	43.6	43.6
GE 16000		28.4	28.4	33.8	38.7	40.9	42.2	42.7	42.7	43.6	43.6	43.6	43.6	43.6	43.6	43.6
GE 14000		28.4	28.4	33.8	38.7	40.9	42.2	42.7	42.7	43.6	43.6	43.6	43.6	43.6	43.6	43.6
GE 12000		29.3	29.3	35.1	40.0	42.2	43.6	44.0	44.0	44.9	44.9	44.9	44.9	44.9	44.9	44.9
GE 10000		32.4	32.4	38.2	43.1	45.3	47.1	47.6	47.6	48.4	48.4	48.4	48.4	48.4	48.4	48.4
GE 9000		34.2	34.2	40.0	44.9	47.1	48.9	49.3	49.3	50.2	50.2	50.2	50.2	50.2	50.2	50.2
GE 8000		37.3	37.3	43.1	48.4	50.7	52.4	52.9	52.9	53.8	53.8	53.8	53.8	53.8	53.8	53.8
GE 7000		38.2	38.2	44.4	49.8	52.0	53.8	54.2	54.2	55.1	55.1	55.1	55.1	55.1	55.1	55.1
GE 6000		38.7	39.1	45.3	50.7	52.9	54.7	55.1	55.1	56.0	56.0	56.0	56.0	56.0	56.0	56.0
GE 5000		43.1	44.4	51.1	56.4	59.6	61.3	61.8	61.8	62.7	62.7	62.7	62.7	62.7	62.7	62.7
GE 4500		45.8	47.1	54.2	59.6	62.7	64.4	64.9	64.9	65.8	65.8	65.8	65.8	65.8	65.8	65.8
GE 4000		48.9	51.6	59.6	66.2	69.3	71.1	71.6	72.4	73.3	73.3	73.3	73.3	73.3	73.3	73.3
GE 3500		51.6	55.1	64.4	72.0	75.1	76.9	77.3	78.2	79.1	79.1	79.1	79.1	79.1	79.1	79.1
GE 3000		54.2	57.8	69.3	78.2	81.3	83.1	83.6	84.4	85.3	85.3	85.3	85.3	85.3	85.3	85.3
GE 2500		54.7	58.2	70.2	80.0	83.6	86.7	87.6	88.4	89.8	89.8	89.8	89.8	89.8	89.8	89.8
GE 2000		56.4	60.0	72.4	83.1	87.1	91.6	93.3	94.7	96.9	96.9	96.9	96.9	96.9	96.9	96.9
GE 1800		56.4	60.0	72.4	83.1	87.1	91.6	93.3	94.7	96.9	96.9	96.9	96.9	96.9	96.9	96.9
GE 1500		56.4	60.0	72.9	83.5	87.6	92.9	94.7	96.0	98.2	98.2	98.2	98.2	98.2	98.2	98.2
GE 1200		56.4	60.0	72.9	83.5	88.4	93.8	95.6	96.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE 1000		56.4	60.0	72.9	83.5	88.4	93.8	95.6	96.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE 900		56.4	60.0	72.9	83.6	88.4	93.8	95.6	96.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE 800		56.4	60.0	72.9	83.6	88.4	93.8	95.6	97.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 700		56.4	60.0	72.9	83.6	88.4	93.8	95.6	97.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 600		56.4	60.0	72.9	83.6	88.4	93.8	95.6	97.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 500		56.4	60.0	72.9	83.6	88.4	93.8	95.6	97.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400		56.4	60.0	72.9	83.6	88.4	93.8	95.6	97.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300		56.4	60.0	72.9	83.6	88.4	93.8	95.6	97.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200		56.4	60.0	72.9	83.6	88.4	93.8	95.6	97.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100		56.4	60.0	72.9	83.6	88.4	93.8	95.6	97.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 0		56.4	60.0	72.9	83.6	88.4	93.8	95.6	97.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 225

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: MAR HOURS(LST): ALL

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		18.1	18.9	23.7	25.3	25.8	26.8	27.1	27.2	27.8	27.9	28.0	28.0	28.1	28.1	28.1
GE 20000		22.9	23.8	29.2	31.1	31.7	32.8	33.1	33.3	33.9	34.0	34.0	34.1	34.2	34.2	34.2
GE 18000		23.2	24.2	29.7	31.7	32.2	33.3	33.6	33.8	34.4	34.5	34.5	34.6	34.7	34.7	34.7
GE 16000		23.2	24.2	29.7	31.7	32.2	33.3	33.7	33.8	34.4	34.5	34.6	34.7	34.7	34.7	34.7
GE 14000		23.5	24.5	30.1	32.1	32.6	33.8	34.1	34.3	34.9	35.0	35.1	35.1	35.2	35.2	35.2
GE 12000		24.3	25.3	31.3	33.2	33.8	34.9	35.3	35.5	36.1	36.2	36.3	36.4	36.4	36.4	36.4
GE 10000		26.0	27.1	33.6	35.7	36.3	37.6	38.0	38.2	38.8	39.0	39.0	39.1	39.1	39.1	39.1
GE 9000		27.1	28.2	35.1	37.5	38.1	39.4	39.9	40.1	40.7	40.8	40.9	41.0	41.0	41.0	41.0
GE 8000		29.8	31.0	38.3	41.1	41.7	43.2	44.0	44.2	44.9	45.1	45.1	45.2	45.3	45.3	45.3
GE 7000		30.8	32.0	39.8	42.8	43.5	45.0	45.9	46.1	46.9	47.1	47.1	47.2	47.3	47.3	47.3
GE 6000		31.1	32.4	40.4	43.5	44.4	45.9	46.8	47.0	47.8	47.9	48.0	48.1	48.2	48.2	48.2
GE 5000		33.9	35.6	44.0	47.6	48.6	50.2	51.1	51.3	52.2	52.3	52.4	52.5	52.5	52.6	52.6
GE 4500		36.7	38.5	47.2	51.0	52.0	53.7	54.7	54.9	55.8	55.9	56.0	56.1	56.2	56.2	56.2
GE 4000		42.4	44.5	54.2	58.5	59.5	61.4	62.5	62.9	63.8	64.1	64.1	64.3	64.3	64.4	64.4
GE 3500		46.6	48.9	59.5	64.1	65.1	67.1	68.1	68.5	69.4	69.7	69.8	69.9	70.0	70.0	70.0
GE 3000		52.7	55.2	67.2	72.4	73.7	75.7	76.8	77.2	78.2	78.5	78.6	78.7	78.8	78.8	78.8
GE 2500		55.6	58.3	70.7	76.1	77.6	80.0	81.2	81.6	82.8	83.0	83.1	83.3	83.3	83.4	83.4
GE 2000		60.1	63.2	76.8	82.4	84.1	87.0	88.5	89.0	90.5	90.8	90.9	91.1	91.1	91.2	91.2
GE 1800		60.5	63.6	77.2	82.9	84.6	87.5	89.0	89.6	91.1	91.4	91.5	91.7	91.8	91.8	91.8
GE 1500		61.4	64.6	78.6	84.5	86.2	89.7	91.4	92.0	93.7	94.1	94.2	94.4	94.5	94.5	94.5
GE 1200		61.8	65.2	79.5	85.5	87.5	91.2	93.3	93.9	95.9	96.3	96.5	96.7	96.8	96.8	96.8
GE 1000		62.0	65.3	79.9	86.1	88.0	91.8	93.9	94.6	96.7	97.1	97.3	97.4	97.6	97.6	97.7
GE 900		62.0	65.3	80.0	86.1	88.1	91.9	94.0	94.7	96.8	97.3	97.5	97.6	97.8	97.9	97.9
GE 800		62.0	65.3	80.0	86.3	88.3	92.1	94.3	95.1	97.3	97.7	97.9	98.2	98.3	98.4	98.5
GE 700		62.0	65.3	80.0	86.4	88.4	92.3	94.5	95.4	97.6	98.1	98.4	98.6	98.7	98.8	98.9
GE 600		62.0	65.3	80.0	86.4	88.4	92.3	94.6	95.4	97.8	98.4	98.6	98.8	99.0	99.0	99.1
GE 500		62.0	65.3	80.0	86.4	88.5	92.3	94.6	95.5	98.0	98.6	98.8	99.0	99.3	99.3	99.4
GE 400		62.0	65.3	80.0	86.4	88.5	92.3	94.6	95.5	98.0	98.6	98.9	99.1	99.4	99.5	99.6
GE 300		62.0	65.3	80.0	86.4	88.5	92.3	94.6	95.5	98.0	98.7	98.9	99.2	99.5	99.6	99.7
GE 200		62.0	65.3	80.0	86.4	88.5	92.3	94.6	95.5	98.0	98.7	98.9	99.2	99.5	99.7	99.9
GE 100		62.0	65.3	80.0	86.4	88.5	92.3	94.6	95.5	98.0	98.7	98.9	99.2	99.5	99.7	100.0
GE 0		62.0	65.3	80.0	86.4	88.5	92.3	94.6	95.5	98.0	98.7	98.9	99.2	99.5	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS: 3355

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: APR HOURS(LST): 0600-0800

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		25.4	26.8	32.5	35.1	35.6	36.7	36.7	36.8	36.8	36.8	36.8	36.8	37.1	37.1	37.3
GE 20000		28.7	30.5	37.0	39.7	40.3	41.7	41.9	42.1	42.2	42.2	42.2	42.2	42.9	42.9	43.0
GE 18000		29.0	30.8	37.5	40.2	41.0	42.4	42.5	42.7	42.9	42.9	42.9	42.9	43.5	43.5	43.7
GE 16000		29.0	30.8	37.5	40.2	41.0	42.4	42.5	42.7	42.9	42.9	42.9	42.9	43.5	43.5	43.7
GE 14000		29.4	31.1	37.9	40.6	41.4	42.9	43.0	43.2	43.3	43.3	43.3	43.3	44.0	44.0	44.1
GE 12000		29.7	31.4	38.3	41.0	41.7	43.2	43.3	43.5	44.1	44.1	44.1	44.1	44.8	44.8	44.9
GE 10000		31.7	33.5	40.6	43.5	44.4	45.9	46.0	46.2	46.8	46.8	46.8	46.8	47.5	47.5	47.6
GE 9000		33.0	35.1	42.9	45.7	46.7	48.1	48.3	48.4	49.0	49.0	49.0	49.0	49.7	49.7	49.8
GE 8000		35.4	38.1	46.7	50.0	51.0	53.0	53.8	54.0	54.6	54.6	54.6	54.6	55.2	55.2	55.4
GE 7000		37.1	40.0	49.7	53.0	54.0	56.7	57.8	57.9	58.7	58.7	58.7	58.7	59.4	59.4	59.5
GE 6000		37.5	40.3	50.0	53.3	54.3	57.0	58.1	58.3	59.0	59.0	59.0	59.0	59.7	59.7	59.8
GE 5000		42.1	44.9	55.1	58.6	59.5	62.2	63.3	63.5	64.3	64.3	64.3	64.3	64.9	64.9	65.1
GE 4500		43.0	46.2	56.5	60.2	61.1	64.0	65.1	65.2	66.0	66.0	66.0	66.0	66.7	66.7	66.8
GE 4000		46.3	49.5	61.1	65.6	66.7	69.7	70.8	71.0	72.1	72.1	72.1	72.1	72.7	72.7	72.9
GE 3500		49.2	52.5	64.8	69.4	70.5	73.5	74.6	74.8	75.9	75.9	75.9	75.9	76.5	76.5	76.7
GE 3000		51.9	55.7	68.6	73.5	74.6	77.9	79.0	79.2	80.5	80.5	80.5	80.5	81.1	81.1	81.3
GE 2500		53.8	57.9	71.0	76.0	77.1	80.5	81.7	81.9	83.2	83.2	83.2	83.2	83.8	83.8	84.0
GE 2000		56.5	61.0	75.6	81.6	82.7	86.0	87.5	87.6	88.9	89.2	89.2	89.2	89.8	89.8	90.0
GE 1800		56.7	61.1	76.0	82.2	83.3	86.7	88.1	88.3	89.7	90.0	90.0	90.0	90.6	90.6	90.8
GE 1500		57.1	61.6	77.1	83.3	85.4	89.2	90.6	90.8	92.2	92.5	92.5	92.5	93.2	93.2	93.3
GE 1200		57.3	62.1	78.3	85.2	86.8	90.8	92.2	92.5	94.1	94.8	94.8	94.8	95.4	95.4	95.6
GE 1000		57.6	62.5	78.9	86.2	87.8	91.9	93.3	93.7	95.2	95.9	95.9	95.9	96.5	96.5	96.7
GE 900		57.6	62.5	79.0	86.3	87.9	92.2	93.7	94.0	95.6	96.2	96.2	96.2	96.8	96.8	97.0
GE 800		57.6	62.5	79.0	86.3	87.9	92.4	93.8	94.1	95.9	96.5	96.5	96.5	97.1	97.1	97.3
GE 700		57.6	62.5	79.0	86.3	88.1	92.9	94.4	94.8	96.7	97.3	97.3	97.3	97.9	97.9	98.1
GE 600		57.6	62.5	79.0	86.3	88.1	93.0	94.8	95.1	97.0	97.6	97.6	97.6	98.3	98.3	98.4
GE 500		57.6	62.5	79.0	86.3	88.1	93.0	94.8	95.2	97.1	97.9	97.9	98.1	98.7	98.7	98.9
GE 400		57.6	62.5	79.0	86.3	88.1	93.0	94.9	95.4	97.6	98.4	98.4	98.6	99.2	99.2	99.4
GE 300		57.6	62.5	79.0	86.3	88.1	93.0	94.9	95.4	97.6	98.6	98.6	98.7	99.4	99.4	99.8
GE 200		57.6	62.5	79.0	86.3	88.1	93.0	94.9	95.4	97.6	98.6	98.6	98.7	99.4	99.4	100.0
GE 100		57.6	62.5	79.0	86.3	88.1	93.0	94.9	95.4	97.6	98.6	98.6	98.7	99.4	99.4	100.0
GE 0		57.6	62.5	79.0	86.3	88.1	93.0	94.9	95.4	97.6	98.6	98.6	98.7	99.4	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS: 630

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: APR HOURS(LST): 0900-1100

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		28.1	29.3	34.7	35.3	35.3	35.3	35.3	35.3	35.4	35.4	35.6	35.6	35.6	35.6	35.6
GE 20000		32.4	33.6	39.9	40.5	40.5	40.5	40.5	40.5	40.6	40.6	40.8	40.8	40.8	40.8	40.8
GE 18000		33.1	34.4	40.6	41.3	41.3	41.3	41.3	41.3	41.4	41.4	41.6	41.6	41.6	41.6	41.6
GE 16000		33.1	34.4	40.6	41.3	41.3	41.3	41.3	41.3	41.4	41.4	41.6	41.6	41.6	41.6	41.6
GE 14000		33.3	34.5	40.8	41.4	41.4	41.4	41.4	41.4	41.6	41.6	41.7	41.7	41.7	41.7	41.7
GE 12000		34.4	35.7	42.3	42.9	42.9	43.1	43.3	43.3	43.7	43.7	43.9	43.9	43.9	43.9	43.9
GE 10000		36.2	37.6	45.1	45.7	45.7	46.2	46.3	46.3	46.8	46.8	46.9	46.9	46.9	46.9	46.9
GE 9000		37.6	39.0	46.8	47.4	47.4	48.0	48.3	48.3	48.8	48.8	48.9	48.9	48.9	48.9	48.9
GE 8000		39.7	42.0	51.7	52.3	52.3	52.9	53.2	53.2	53.7	53.7	53.8	53.8	53.8	53.8	53.8
GE 7000		41.7	44.3	54.6	55.2	55.2	56.0	56.3	56.3	56.7	56.7	56.9	56.9	56.9	56.9	56.9
GE 6000		41.9	44.6	54.9	55.5	55.5	56.3	56.6	56.6	57.1	57.1	57.2	57.2	57.2	57.2	57.2
GE 5000		44.2	47.2	58.0	58.6	58.6	59.5	59.8	59.8	60.3	60.3	60.4	60.4	60.4	60.4	60.4
GE 4500		45.9	48.9	60.0	60.6	60.6	61.5	61.8	61.8	62.3	62.3	62.4	62.4	62.4	62.4	62.4
GE 4000		49.7	52.9	64.4	65.0	65.2	66.1	66.4	66.4	66.9	66.9	67.0	67.0	67.0	67.0	67.0
GE 3500		52.8	56.1	68.7	69.9	70.1	71.0	71.3	71.3	71.8	71.8	71.9	71.9	71.9	71.9	71.9
GE 3000		59.4	63.2	76.7	78.4	78.7	79.8	80.1	80.1	80.5	80.5	80.7	80.7	80.7	80.7	80.7
GE 2500		61.7	65.5	79.1	81.0	81.3	82.5	82.8	82.8	83.3	83.3	83.4	83.4	83.4	83.4	83.4
GE 2000		65.2	69.6	83.9	86.0	86.5	87.9	88.2	88.2	89.0	89.0	89.3	89.3	89.3	89.3	89.3
GE 1800		65.5	70.1	84.7	86.8	87.3	88.7	89.0	89.0	89.7	89.7	90.0	90.0	90.0	90.0	90.0
GE 1500		66.9	71.6	86.8	89.1	89.6	91.9	92.2	92.2	93.3	93.3	93.6	93.6	93.6	93.6	93.6
GE 1200		67.8	73.2	89.3	91.7	92.5	94.9	95.2	95.2	96.3	96.5	96.8	96.8	96.8	96.8	96.8
GE 1000		67.8	73.3	89.6	92.0	92.9	95.4	95.7	95.7	96.8	96.9	97.2	97.2	97.2	97.2	97.2
GE 900		67.8	73.3	89.6	92.2	93.1	95.7	96.0	96.0	97.1	97.2	97.5	97.7	97.7	97.7	97.7
GE 800		67.8	73.3	89.6	92.3	93.3	95.9	96.3	96.3	97.4	97.5	97.9	98.0	98.0	98.0	98.0
GE 700		67.8	73.3	89.6	92.3	93.4	96.2	96.9	97.1	98.2	98.3	98.6	98.8	98.8	98.8	98.8
GE 600		67.8	73.3	89.6	92.3	93.4	96.2	96.9	97.1	98.2	98.3	98.6	98.8	98.8	98.8	98.8
GE 500		67.8	73.3	89.6	92.3	93.4	96.2	96.9	97.1	98.5	98.6	98.9	99.4	99.4	99.5	99.5
GE 400		67.8	73.3	89.6	92.3	93.6	96.5	97.4	97.5	98.9	99.1	99.4	99.8	99.8	100.0	100.0
GE 300		67.8	73.3	89.6	92.3	93.6	96.5	97.4	97.5	98.9	99.1	99.4	99.8	99.8	100.0	100.0
GE 200		67.8	73.3	89.6	92.3	93.6	96.5	97.4	97.5	98.9	99.1	99.4	99.8	99.8	100.0	100.0
GE 100		67.8	73.3	89.6	92.3	93.6	96.5	97.4	97.5	98.9	99.1	99.4	99.8	99.8	100.0	100.0
GE 0		67.8	73.3	89.6	92.3	93.6	96.5	97.4	97.5	98.9	99.1	99.4	99.8	99.8	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 652

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105420 STATION NAME: HAHAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: APR HOURS(LST): 1200-1400

CEILINGS IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 6	GE 4	GE 0
NO CEIL		31.2	32.1	33.9	33.9	33.9	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3
GE 20000		38.5	39.5	42.0	42.0	42.0	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
GE 18000		39.0	39.9	42.4	42.4	42.4	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
GE 16000		39.0	39.9	42.4	42.4	42.4	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
GE 14000		39.0	39.9	42.4	42.4	42.4	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
GE 12000		45.7	41.7	44.1	44.1	44.1	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6
GE 10000		42.0	42.9	46.3	46.3	46.3	46.8	46.8	46.8	47.0	47.0	47.0	47.0	47.0	47.0	47.0
GE 9000		42.4	43.4	47.1	47.1	47.1	47.6	47.6	47.6	47.7	47.7	47.7	47.7	47.7	47.7	47.7
GE 8000		47.3	48.4	52.4	52.4	52.4	52.9	52.9	52.9	53.0	53.0	53.0	53.0	53.0	53.0	53.0
GE 7000		49.5	50.5	54.8	54.9	54.9	55.4	55.4	55.4	55.5	55.5	55.5	55.5	55.5	55.5	55.5
GE 6000		49.5	50.7	54.9	55.1	55.1	55.5	55.5	55.5	55.7	55.7	55.7	55.7	55.7	55.7	55.7
GE 5000		52.0	53.5	57.9	58.0	58.0	58.5	58.5	58.5	58.7	58.7	58.7	58.7	58.7	58.7	58.7
GE 4500		55.1	56.6	61.0	61.2	61.2	61.6	61.6	61.6	61.8	61.8	61.8	61.8	61.8	61.8	61.8
GE 4000		58.2	59.8	64.7	64.9	65.1	65.5	65.7	65.7	65.8	65.8	65.8	65.8	65.8	65.8	65.8
GE 3500		65.7	67.2	72.9	73.0	73.2	73.8	73.9	73.9	74.1	74.1	74.1	74.1	74.1	74.1	74.1
GE 3000		75.4	77.2	83.9	84.1	84.4	85.0	85.2	85.2	85.3	85.3	85.3	85.3	85.3	85.3	85.3
GE 2500		78.6	80.5	87.4	87.8	88.1	88.8	88.9	88.9	89.1	89.1	89.1	89.1	89.1	89.1	89.1
GE 2000		82.5	85.0	92.8	93.6	93.9	94.8	94.9	94.9	95.2	95.2	95.2	95.2	95.2	95.2	95.2
GE 1800		83.0	85.5	93.3	94.1	94.4	95.0	95.3	95.3	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 1500		84.7	87.2	95.3	96.3	96.6	97.2	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
GE 1200		85.2	87.7	96.1	97.0	97.3	98.4	98.8	98.8	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE 1000		85.2	87.8	96.3	97.2	97.7	98.6	98.9	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 900		85.2	87.8	96.4	97.3	97.8	98.8	99.1	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 800		85.2	87.8	96.4	97.3	97.8	98.8	99.1	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 700		85.2	87.8	96.4	97.3	97.8	98.8	99.1	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 600		85.2	87.8	96.4	97.5	98.0	99.1	99.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 500		85.2	87.8	96.4	97.7	98.1	99.4	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400		85.2	87.8	96.4	97.7	98.1	99.4	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300		85.2	87.8	96.4	97.7	98.1	99.4	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200		85.2	87.8	96.4	97.7	98.1	99.4	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100		85.2	87.8	96.4	97.7	98.1	99.4	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 0		85.2	87.8	96.4	97.7	98.1	99.4	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 641

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HAHAU AAF GERMANY PERIOD OF RECORD: 77-86
MONTH: APR HOURS(LST): 1500-1700

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS														
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		33.2	33.2	35.6	35.6	35.6	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7
GE 20000		43.0	43.2	45.9	45.9	45.9	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
GE 18000		43.3	43.5	46.2	46.2	46.2	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4
GE 16000		43.3	43.5	46.2	46.2	46.2	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4
GE 14000		43.3	43.5	46.2	46.2	46.2	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4
GE 12000		44.0	44.1	47.0	47.0	47.0	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
GE 10000		46.9	47.3	50.9	50.9	50.9	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
GE 9000		48.1	48.6	52.3	52.3	52.3	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
GE 8000		53.3	53.8	58.1	58.1	58.1	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
GE 7000		55.1	55.6	60.5	60.5	60.5	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
GE 6000		56.0	56.7	61.7	61.7	61.7	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
GE 5000		57.6	58.5	63.4	63.4	63.4	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
GE 4500		59.7	60.5	65.7	65.7	65.7	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9
GE 4000		66.8	67.6	73.1	73.1	73.1	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
GE 3500		74.4	75.2	81.2	81.3	81.3	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
GE 3000		82.1	82.9	89.2	89.7	89.9	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
GE 2500		84.4	85.2	91.9	92.4	92.6	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
GE 2000		87.8	88.9	96.3	96.9	97.1	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
GE 1800		87.8	88.9	96.3	97.1	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
GE 1500		98.7	89.9	97.4	98.4	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
GE 1200		88.5	90.0	97.9	98.9	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 1000		88.9	90.0	97.9	98.9	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 900		88.9	90.0	97.9	98.9	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 800		88.9	90.0	97.9	98.9	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 700		88.9	90.0	97.9	98.9	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 600		88.9	90.0	97.9	99.2	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 500		88.9	90.0	97.9	99.2	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400		88.9	90.0	97.9	99.2	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300		88.9	90.0	97.9	99.2	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200		88.9	90.0	97.9	99.2	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100		88.9	90.0	97.9	99.2	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 0		88.9	90.0	97.9	99.2	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 621

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: APR HOURS(LST): 1800-2000

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		35.6	36.3	38.4	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
GE 20000		44.2	45.3	48.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
GE 18000		44.2	45.3	48.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
GE 16000		44.2	45.3	48.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
GE 14000		44.9	46.0	49.3	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4
GE 12000		45.1	46.2	49.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5
GE 10000		49.3	50.4	54.5	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
GE 9000		50.4	51.4	55.6	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
GE 8000		54.5	55.8	60.5	61.6	61.6	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
GE 7000		57.4	58.8	63.7	64.8	64.8	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
GE 6000		59.7	61.2	66.1	67.1	67.1	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
GE 5000		63.5	65.0	70.0	71.1	71.1	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
GE 4500		68.1	69.5	74.9	76.0	76.2	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4
GE 4000		75.6	77.3	82.7	83.8	83.9	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
GE 3500		79.2	81.0	86.6	87.7	87.9	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
GE 3000		82.5	84.5	91.2	92.4	92.6	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
GE 2500		83.6	85.6	92.4	93.9	94.0	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
GE 2000		84.8	87.0	94.2	96.0	96.2	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
GE 1800		85.0	87.2	94.4	96.4	96.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
GE 1500		85.0	87.2	95.1	97.7	98.0	98.4	98.4	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6
GE 1200		85.0	87.2	95.3	97.8	98.2	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE 1000		85.0	87.2	95.5	98.2	98.6	99.1	99.1	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3
GE 900		85.0	87.2	95.5	98.2	98.6	99.1	99.1	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3
GE 800		85.0	87.2	95.5	98.2	98.6	99.1	99.1	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3
GE 700		85.0	87.2	95.5	98.2	98.6	99.1	99.1	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3
GE 600		85.0	87.2	95.5	98.2	98.6	99.1	99.1	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3
GE 500		85.2	87.4	95.7	98.4	98.7	99.3	99.3	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 400		85.2	87.4	95.7	98.4	98.7	99.3	99.3	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 300		85.2	87.4	95.7	98.4	98.9	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200		85.2	87.4	95.7	98.4	98.9	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100		85.2	87.4	95.7	98.4	98.9	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 0		85.2	87.4	95.7	98.4	98.9	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 554

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: APR HOURS(LST): 2100-2300

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS														
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		41.7	42.0	43.7	45.0	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
GE 20000		48.0	48.3	51.0	53.0	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
GE 18000		48.0	48.3	51.0	53.0	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
GE 16000		48.0	48.3	51.0	53.0	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
GE 14000		49.0	49.3	52.0	54.0	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
GE 12000		49.3	49.7	52.3	54.3	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
GE 10000		52.3	52.7	55.7	58.0	58.7	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
GE 9000		52.3	52.7	56.0	58.3	59.0	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3
GE 8000		53.7	54.3	58.0	61.0	61.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
GE 7000		56.3	57.0	62.0	65.0	65.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
GE 6000		58.3	59.0	64.0	67.0	67.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
GE 5000		60.7	61.3	67.0	70.3	71.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
GE 4500		66.3	67.0	73.3	76.7	77.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
GE 4000		71.7	72.3	78.7	82.0	82.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
GE 3500		74.3	75.0	81.3	84.7	85.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
GE 3000		77.3	78.3	85.7	89.7	90.7	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
GE 2500		78.7	79.7	87.0	91.0	92.0	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
GE 2000		80.0	81.3	89.0	93.3	94.3	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
GE 1800		80.3	81.7	89.3	94.0	95.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
GE 1500		81.0	82.3	90.0	94.7	95.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
GE 1200		81.0	82.3	90.0	95.0	96.0	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
GE 1000		81.0	82.3	90.3	95.3	96.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE 900		81.0	82.3	91.0	96.0	97.0	99.3	99.3	99.3	99.3	99.7	99.7	99.7	99.7	99.7	99.7
GE 800		81.0	82.3	91.0	96.0	97.0	99.3	99.3	99.3	99.3	99.7	99.7	99.7	99.7	99.7	99.7
GE 700		81.0	82.3	91.0	96.0	97.0	99.3	99.3	99.3	99.3	99.7	99.7	99.7	99.7	99.7	99.7
GE 600		81.0	82.3	91.0	96.0	97.0	99.3	99.3	99.3	99.3	99.7	99.7	99.7	99.7	99.7	99.7
GE 500		81.0	82.3	91.0	96.0	97.0	99.3	99.3	99.3	99.3	99.7	99.7	99.7	99.7	99.7	99.7
GE 400		81.0	82.3	91.0	96.0	97.0	99.3	99.3	99.3	99.3	99.7	100.0	100.0	100.0	100.0	100.0
GE 300		81.0	82.3	91.0	96.0	97.0	99.3	99.3	99.3	99.3	99.7	100.0	100.0	100.0	100.0	100.0
GE 200		81.0	82.3	91.0	96.0	97.0	99.3	99.3	99.3	99.3	99.7	100.0	100.0	100.0	100.0	100.0
GE 100		81.0	82.3	91.0	96.0	97.0	99.3	99.3	99.3	99.3	99.7	100.0	100.0	100.0	100.0	100.0
GE 0		81.0	82.3	91.0	96.0	97.0	99.3	99.3	99.3	99.3	99.7	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 300

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 77-86
MONTH: APR HOURS(LST): ALL

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		31.5	32.3	35.7	36.5	36.7	37.0	37.0	37.0	37.1	37.1	37.1	37.1	37.1	37.1	37.2
GE 20000		38.1	39.1	43.2	44.2	44.4	44.8	44.8	44.8	44.9	44.9	44.9	44.9	45.0	45.0	45.1
GE 18000		38.5	39.4	43.6	44.6	44.8	45.2	45.2	45.2	45.3	45.3	45.3	45.3	45.4	45.4	45.5
GE 16000		38.5	39.4	43.6	44.6	44.8	45.2	45.2	45.2	45.3	45.3	45.3	45.3	45.4	45.4	45.5
GE 14000		38.8	39.7	43.9	44.9	45.1	45.5	45.5	45.6	45.6	45.6	45.6	45.6	45.8	45.8	45.8
GE 12000		39.5	40.5	44.8	45.8	46.0	46.4	46.5	46.5	46.7	46.7	46.7	46.7	46.9	46.9	46.9
GE 10000		42.0	43.0	48.0	49.1	49.3	49.8	49.9	49.9	50.1	50.1	50.1	50.1	50.3	50.3	50.3
GE 9000		43.0	44.1	49.4	50.4	50.6	51.2	51.3	51.3	51.5	51.5	51.6	51.6	51.7	51.7	51.7
GE 8000		46.5	48.0	54.1	55.2	55.5	56.2	56.4	56.4	56.7	56.7	56.7	56.7	56.8	56.8	56.9
GE 7000		48.6	50.2	56.9	58.2	58.4	59.3	59.5	59.6	59.8	59.8	59.9	59.9	60.0	60.0	60.0
GE 6000		49.4	51.1	57.9	59.1	59.3	60.2	60.4	60.5	60.7	60.7	60.8	60.8	60.9	60.9	60.9
GE 5000		52.3	54.2	61.2	62.4	62.7	63.6	63.9	63.9	64.2	64.2	64.2	64.2	64.3	64.3	64.3
GE 4500		55.0	56.9	64.2	65.5	65.7	66.7	67.0	67.0	67.2	67.2	67.3	67.3	67.4	67.4	67.4
GE 4000		60.0	61.9	69.7	71.1	71.5	72.5	72.7	72.8	73.1	73.1	73.1	73.1	73.2	73.2	73.3
GE 3500		64.7	66.8	75.1	76.7	77.1	78.1	78.4	78.4	78.7	78.7	78.8	78.8	78.9	78.9	78.9
GE 3000		70.5	72.9	82.0	83.9	84.4	85.5	85.8	85.8	86.2	86.2	86.2	86.2	86.3	86.3	86.4
GE 2500		72.6	75.0	84.4	86.4	86.9	88.1	88.4	88.4	88.8	88.8	88.8	88.8	88.9	88.9	89.0
GE 2000		75.5	78.3	88.4	90.9	91.4	92.6	93.0	93.0	93.5	93.5	93.6	93.6	93.7	93.7	93.7
GE 1800		75.7	78.6	88.8	91.4	91.9	93.1	93.5	93.6	94.0	94.1	94.1	94.1	94.3	94.3	94.3
GE 1500		76.6	79.5	90.2	93.1	93.7	95.3	95.6	95.7	96.2	96.3	96.4	96.4	96.5	96.5	96.5
GE 1200		77.0	80.0	91.1	94.1	94.9	96.6	96.9	97.0	97.6	97.7	97.8	97.8	97.9	97.9	97.9
GE 1000		77.0	80.2	91.4	94.5	95.3	97.0	97.4	97.4	98.0	98.2	98.2	98.2	98.4	98.4	98.4
GE 900		77.0	80.2	91.5	94.6	95.4	97.2	97.6	97.6	98.2	98.4	98.5	98.5	98.6	98.6	98.6
GE 800		77.0	80.2	91.5	94.6	95.4	97.3	97.7	97.7	98.4	98.5	98.6	98.6	98.7	98.7	98.8
GE 700		77.0	80.2	91.5	94.6	95.5	97.4	97.9	98.0	98.6	98.8	98.9	98.9	99.0	99.0	99.1
GE 600		77.0	80.2	91.5	94.7	95.6	97.6	98.1	98.2	98.9	99.0	99.1	99.1	99.2	99.2	99.3
GE 500		77.0	80.2	91.6	94.8	95.6	97.7	98.2	98.3	99.0	99.2	99.3	99.4	99.5	99.6	99.6
GE 400		77.0	80.2	91.6	94.8	95.7	97.7	98.3	98.4	99.2	99.4	99.5	99.6	99.7	99.8	99.8
GE 300		77.0	80.2	91.6	94.8	95.7	97.8	98.4	98.5	99.3	99.5	99.6	99.7	99.9	99.9	100.0
GE 200		77.0	80.2	91.6	94.8	95.7	97.8	98.4	98.5	99.3	99.5	99.6	99.7	99.9	99.9	100.0
GE 100		77.0	80.2	91.6	94.8	95.7	97.8	98.4	98.5	99.3	99.5	99.6	99.7	99.9	99.9	100.0
GE 0		77.0	80.2	91.6	94.8	95.7	97.8	98.4	98.5	99.3	99.5	99.6	99.7	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS: 3398

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: MAY HOURS(LST): 0600-0800

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		26.3	26.4	30.2	31.3	31.5	31.9	32.1	32.1	32.2	32.2	32.2	32.2	32.2	32.2	32.2
GE 20000		30.4	30.5	34.6	35.7	35.8	36.5	36.6	36.6	36.8	36.8	36.8	36.8	36.8	36.8	36.8
GE 18000		30.8	31.0	35.1	36.2	36.3	36.9	37.1	37.1	37.2	37.2	37.2	37.2	37.2	37.2	37.2
GE 16000		30.8	31.0	35.1	36.2	36.3	36.9	37.1	37.1	37.2	37.2	37.2	37.2	37.2	37.2	37.2
GE 14000		31.3	31.5	35.7	36.8	36.9	37.6	37.7	37.7	37.9	37.9	37.9	37.9	37.9	37.9	37.9
GE 12000		31.9	32.1	36.8	37.9	38.0	38.8	39.0	39.0	39.1	39.1	39.1	39.1	39.1	39.1	39.1
GE 10000		33.5	33.8	39.1	40.5	40.7	41.6	41.8	41.8	42.3	42.3	42.3	42.3	42.4	42.4	42.6
GE 9000		34.4	35.1	40.7	42.4	42.6	43.5	43.8	43.8	44.3	44.3	44.3	44.3	44.4	44.4	44.6
GE 8000		41.3	42.3	46.8	50.9	51.0	52.1	52.4	52.6	53.7	53.7	53.7	53.8	54.0	54.0	54.1
GE 7000		43.3	44.4	51.8	54.0	54.1	55.2	55.6	55.7	57.0	57.0	57.0	57.1	57.3	57.3	57.4
GE 6000		43.8	44.9	52.4	54.9	55.2	56.5	56.8	57.0	58.2	58.2	58.2	58.4	58.5	58.5	58.7
GE 5000		48.4	49.9	58.8	61.5	61.8	63.1	63.5	64.0	65.3	65.3	65.3	65.4	65.6	65.6	65.7
GE 4500		50.7	52.3	61.7	64.3	64.6	66.0	66.5	67.0	68.2	68.2	68.2	68.4	68.5	68.5	68.7
GE 4000		54.0	55.6	66.8	70.0	70.3	71.7	72.3	72.8	74.0	74.0	74.0	74.2	74.3	74.3	74.5
GE 3500		54.9	56.5	69.5	73.1	73.6	75.1	75.9	76.4	77.8	77.8	77.8	77.9	78.1	78.1	78.2
GE 3000		58.2	60.4	73.7	77.3	77.9	79.7	80.4	80.9	82.5	82.5	82.5	82.6	82.8	82.8	82.9
GE 2500		58.4	60.6	74.0	77.8	78.6	80.4	81.2	81.7	83.3	83.3	83.3	83.4	83.6	83.6	83.7
GE 2000		60.9	63.8	79.0	82.9	83.7	85.8	86.5	87.0	88.6	88.6	88.6	88.7	88.9	88.9	89.0
GE 1800		61.0	64.0	79.2	83.3	84.0	86.1	86.9	87.3	88.9	88.9	88.9	89.0	89.2	89.2	89.4
GE 1500		62.0	65.4	80.6	84.8	85.6	87.8	88.6	89.2	90.8	90.8	90.8	90.9	91.1	91.1	91.2
GE 1200		62.4	65.9	82.2	86.9	87.6	90.3	91.1	91.7	93.3	93.3	93.3	93.4	93.6	93.6	93.7
GE 1000		62.4	65.9	82.9	88.1	88.9	91.7	92.8	93.4	95.1	95.1	95.1	95.3	95.5	95.5	95.6
GE 900		62.6	66.0	83.1	88.4	89.2	92.0	93.1	93.7	95.5	95.5	95.5	95.6	95.8	95.8	95.9
GE 800		62.6	66.0	83.1	88.6	89.4	92.2	93.3	93.9	95.6	95.6	95.6	95.8	95.9	95.9	96.1
GE 700		62.6	66.0	83.3	89.0	89.8	92.8	93.9	94.5	96.4	96.4	96.4	96.6	96.7	96.7	96.9
GE 600		62.6	66.0	83.4	89.4	90.3	93.3	94.4	95.0	96.9	96.9	96.9	97.0	97.2	97.2	97.3
GE 500		62.6	66.0	83.7	90.0	90.9	93.9	95.1	95.8	97.7	97.7	97.8	98.3	98.4	98.4	98.6
GE 400		62.6	66.0	83.7	90.0	90.9	93.9	95.3	95.9	98.0	98.0	98.1	98.6	98.9	98.9	99.1
GE 300		62.6	66.0	83.7	90.0	90.9	93.9	95.3	95.9	98.0	98.0	98.1	98.6	98.9	98.9	99.4
GE 200		62.6	66.0	83.7	90.0	90.9	93.9	95.3	95.9	98.0	98.0	98.1	98.6	98.9	98.9	99.4
GE 100		62.6	66.0	83.7	90.0	90.9	93.9	95.3	95.9	98.0	98.0	98.1	98.6	98.9	98.9	100.0
GE 0		62.6	66.0	83.7	90.0	90.9	93.9	95.3	95.9	98.0	98.0	98.1	98.6	98.9	98.9	100.0

TOTAL NUMBER OF OBSERVATIONS: 639

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: MAY HOURS(LST): 0900-1100

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		29.1	29.6	31.6	31.7	31.7	31.7	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9
GE 20000		33.2	34.3	36.4	36.9	37.0	37.0	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2
GE 18000		33.7	34.8	37.2	37.7	37.8	37.8	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0
GE 16000		33.7	34.8	37.2	37.7	37.8	37.8	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0
GE 14000		34.1	35.2	37.7	38.1	38.3	38.3	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4
GE 12000		35.4	36.4	39.0	39.5	39.8	39.8	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9
GE 10000		38.0	39.0	42.4	42.8	43.1	43.1	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
GE 9000		39.0	40.2	44.5	45.1	45.4	45.4	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
GE 8000		45.6	47.3	52.1	52.7	53.0	53.0	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
GE 7000		48.2	50.0	55.3	55.9	56.3	56.3	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
GE 6000		48.2	50.0	55.6	56.4	56.7	56.7	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9
GE 5000		51.5	53.7	60.4	61.1	61.4	61.4	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
GE 4500		52.6	54.7	61.7	62.5	62.8	62.8	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
GE 4000		57.0	59.3	67.2	68.1	68.4	68.4	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
GE 3500		59.6	62.2	71.2	72.3	72.6	72.9	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
GE 3000		68.8	71.5	81.6	82.5	83.1	83.4	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
GE 2500		70.9	74.1	84.3	85.4	85.8	86.1	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
GE 2000		74.2	77.9	88.9	90.1	90.5	90.9	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
GE 1800		74.7	78.4	89.5	91.0	91.5	91.8	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
GE 1500		76.4	80.2	91.6	93.4	93.9	94.5	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
GE 1200		76.8	80.9	92.8	95.0	95.4	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
GE 1000		77.3	81.4	93.9	96.0	96.5	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
GE 900		77.3	81.4	94.2	96.3	96.8	98.0	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
GE 800		77.3	81.4	94.5	96.5	97.1	98.6	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9
GE 700		77.3	81.6	94.8	97.0	97.4	98.9	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 600		77.3	81.6	95.1	97.3	97.7	99.2	99.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 500		77.3	81.6	95.4	97.6	98.0	99.5	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400		77.3	81.6	95.4	97.6	98.0	99.5	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300		77.3	81.6	95.4	97.6	98.0	99.5	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200		77.3	81.6	95.4	97.6	98.0	99.5	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100		77.3	81.6	95.4	97.6	98.0	99.5	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 0		77.3	81.6	95.4	97.6	98.0	99.5	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 656

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105420 STATION NAME: HAHAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: MAY HOURS(LST): 1200-1400

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		32.0	32.2	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
GE 20000		36.1	36.3	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2
GE 18000		36.6	37.2	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
GE 16000		36.6	37.2	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
GE 14000		37.3	37.9	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8
GE 12000		38.2	38.8	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
GE 10000		41.4	42.0	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
GE 9000		42.0	42.9	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
GE 8000		47.6	48.5	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
GE 7000		49.4	50.3	51.7	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
GE 6000		49.8	50.8	52.4	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
GE 5000		54.5	55.4	57.4	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
GE 4500		56.8	57.7	60.0	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
GE 4000		64.5	65.6	68.0	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
GE 3500		72.8	74.0	77.6	78.1	78.1	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
GE 3000		82.3	83.7	87.8	88.2	88.2	88.5	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
GE 2500		84.6	86.1	90.2	90.5	90.6	90.9	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
GE 2000		86.4	87.9	93.1	93.7	93.7	94.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
GE 1800		86.7	88.2	93.4	94.0	94.1	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
GE 1500		87.6	89.1	94.7	95.5	95.8	96.2	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
GE 1200		88.5	90.0	95.9	96.7	97.0	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
GE 1000		88.8	90.3	96.5	97.6	97.9	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
GE 900		88.8	90.3	96.8	98.0	98.3	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
GE 800		89.0	90.5	97.0	98.2	98.5	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE 700		89.1	90.6	97.1	98.5	98.8	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 600		89.1	90.6	97.3	98.6	98.9	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 500		89.1	90.6	97.3	98.8	99.1	99.5	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 400		89.1	90.6	97.4	98.9	99.2	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300		89.1	90.6	97.4	98.9	99.2	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200		89.1	90.6	97.4	98.9	99.2	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100		89.1	90.6	97.4	98.9	99.2	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 0		89.1	90.6	97.4	98.9	99.2	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 662

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: MAY HOURS(LST): 1500-1700

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8
GE 20000		42.7	42.9	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4
GE 18000		43.4	43.7	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
GE 16000		43.4	43.7	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
GE 14000		43.4	43.7	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
GE 12000		44.3	44.6	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
GE 10000		48.5	48.9	49.7	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8
GE 9000		49.7	50.2	51.1	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
GE 8000		54.0	54.6	55.5	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
GE 7000		56.5	57.1	58.2	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
GE 6000		57.1	57.7	58.8	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
GE 5000		62.5	63.1	64.4	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
GE 4500		66.0	66.8	68.1	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
GE 4000		75.0	75.8	77.5	77.5	77.5	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
GE 3500		79.6	80.6	83.0	83.5	83.5	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6
GE 3000		86.4	87.3	90.1	90.6	90.6	90.9	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
GE 2500		87.7	88.6	91.5	92.1	92.1	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
GE 2000		89.5	90.6	94.1	95.2	95.2	95.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
GE 1800		89.7	90.7	94.4	95.5	95.5	96.0	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
GE 1500		90.7	91.8	95.7	96.8	96.8	97.2	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
GE 1200		91.4	92.4	96.6	97.7	97.7	98.3	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
GE 1000		91.4	92.4	96.8	97.8	97.8	98.5	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9
GE 900		91.4	92.4	96.8	97.8	97.8	98.5	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9
GE 800		91.4	92.4	96.8	98.0	98.1	98.8	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 700		91.4	92.4	96.8	98.0	98.3	98.9	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 600		91.4	92.4	96.8	98.0	98.3	98.9	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 500		91.4	92.4	96.9	98.3	98.6	99.4	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400		91.4	92.4	96.9	98.3	98.6	99.4	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300		91.4	92.4	96.9	98.3	98.6	99.4	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200		91.4	92.4	96.9	98.3	98.6	99.4	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100		91.4	92.4	96.9	98.3	98.6	99.4	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 0		91.4	92.4	96.9	98.3	98.6	99.4	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 648

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105420 STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 77-86
MONTH: MAY HOURS(LST): 1800-2000

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 49	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		45.5	45.5	45.5	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8
GE 20000		53.2	53.2	53.6	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
GE 18000		54.7	54.7	55.1	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
GE 16000		54.7	54.7	55.1	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
GE 14000		55.1	55.1	55.5	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8
GE 12000		55.8	55.8	56.2	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6
GE 10000		58.8	59.4	60.1	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
GE 9000		60.7	61.2	62.0	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
GE 8000		65.6	67.2	67.9	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5
GE 7000		68.6	69.2	69.9	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
GE 6000		69.6	70.1	70.9	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
GE 5000		72.5	73.5	74.2	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
GE 4500		73.5	74.8	75.7	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
GE 4000		79.4	80.9	82.2	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
GE 3500		82.2	84.4	86.3	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
GE 3000		85.5	88.1	90.7	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
GE 2500		86.1	88.7	92.6	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
GE 2000		87.2	89.8	94.8	96.3	96.3	96.3	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
GE 1800		87.2	89.8	94.8	96.3	96.3	96.3	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
GE 1500		87.4	90.0	95.2	96.7	96.7	96.8	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
GE 1200		87.8	90.4	95.5	97.0	97.0	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
GE 1000		88.1	90.7	95.9	97.4	97.4	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
GE 900		88.1	90.7	95.9	97.4	97.4	97.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
GE 800		88.1	90.7	95.9	97.4	97.4	97.8	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
GE 700		88.1	90.7	96.1	97.8	98.0	98.3	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE 600		88.1	90.7	96.1	97.8	98.3	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 500		88.1	90.7	96.1	97.8	98.3	98.9	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 400		88.1	90.7	96.1	97.8	98.3	98.9	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300		88.1	90.7	96.1	97.8	98.3	98.9	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200		88.1	90.7	96.1	97.8	98.3	98.9	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100		88.1	90.7	96.1	97.8	98.3	98.9	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 0		88.1	90.7	96.1	97.8	98.3	98.9	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 539

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: MAY HOURS(LST): 2100-2300

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		44.7	44.7	45.8	45.8	45.8	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5
GE 20000		51.4	51.4	53.2	53.2	53.2	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
GE 18000		52.5	52.5	54.2	54.2	54.2	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9
GE 16000		52.5	52.5	54.2	54.2	54.2	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9
GE 14000		52.8	52.8	54.6	54.6	54.6	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
GE 12000		53.2	53.2	54.9	54.9	54.9	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
GE 10000		55.6	55.6	58.8	58.8	58.8	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5
GE 9000		57.7	57.7	60.9	60.9	60.9	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
GE 8000		61.3	61.6	65.8	65.8	65.8	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
GE 7000		63.0	63.4	67.6	67.6	67.6	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
GE 6000		63.4	63.7	68.0	68.0	68.0	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
GE 5000		66.5	67.6	71.8	71.8	71.8	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
GE 4500		69.0	70.1	75.0	75.4	75.4	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
GE 4000		74.3	75.4	81.3	82.0	82.4	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
GE 3500		75.4	76.4	83.8	85.2	85.6	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
GE 3000		76.8	77.8	87.3	88.7	89.4	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
GE 2500		76.8	77.8	87.7	90.5	91.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
GE 2000		77.5	78.5	89.1	93.3	94.0	95.1	95.8	95.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1
GE 1800		77.5	78.5	89.1	93.3	94.0	95.1	95.8	95.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1
GE 1500		77.5	78.5	89.1	93.3	94.0	95.1	95.8	95.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1
GE 1200		77.5	78.5	89.1	93.3	94.0	95.4	96.1	96.1	96.5	96.5	96.5	96.5	96.5	96.5	96.5
GE 1000		77.5	78.5	89.1	93.3	94.0	95.4	96.1	96.1	96.5	96.5	96.5	96.5	96.5	96.5	96.5
GE 900		77.5	78.5	89.1	93.3	94.0	95.4	96.5	96.5	96.8	96.8	96.8	96.8	96.8	96.8	96.8
GE 800		77.5	78.9	89.4	93.7	94.4	95.8	97.2	97.2	97.5	97.5	97.5	97.5	97.5	97.5	97.5
GE 700		77.5	78.9	89.4	93.7	94.4	96.5	97.9	97.9	98.2	98.2	98.2	98.2	98.2	98.2	98.2
GE 600		77.5	78.9	89.4	93.7	94.4	96.8	98.2	98.2	98.6	98.6	98.6	98.6	98.6	98.6	98.6
GE 500		77.5	78.9	89.4	93.7	94.4	96.8	98.2	98.2	98.6	98.6	98.6	98.6	98.6	98.6	98.6
GE 400		77.5	78.9	89.4	93.7	94.4	96.8	99.3	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 300		77.5	78.9	89.4	93.7	94.4	96.8	99.3	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 200		77.5	78.9	89.4	93.7	94.4	96.8	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100		77.5	78.9	89.4	93.7	94.4	96.8	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 0		77.5	78.9	89.4	93.7	94.4	96.8	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMPER OF OBSERVATIONS: 284

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10642J STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 77-86
MONTH: MAY HOURS(LST): ALL

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		33.9	34.0	35.3	35.6	35.6	35.7	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8
GE 20000		39.7	40.0	41.6	42.0	42.0	42.2	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3
GE 18000		40.4	40.8	42.5	42.9	42.9	43.1	43.1	43.1	43.2	43.2	43.2	43.2	43.2	43.2	43.2
GE 16000		40.4	40.8	42.5	42.9	42.9	43.1	43.1	43.1	43.2	43.2	43.2	43.2	43.2	43.2	43.2
GE 14000		40.8	41.2	42.9	43.3	43.3	43.5	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
GE 12000		41.7	42.1	43.9	44.3	44.3	44.5	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6
GE 10000		44.5	45.1	47.4	47.9	48.0	48.2	48.2	48.2	48.3	48.3	48.3	48.3	48.4	48.4	48.4
GE 9000		45.7	46.4	49.1	49.6	49.7	49.9	50.0	50.0	50.1	50.1	50.1	50.1	50.1	50.1	50.2
GE 8000		51.4	52.3	55.3	55.9	56.0	56.3	56.4	56.4	56.6	56.6	56.6	56.6	56.7	56.7	56.7
GE 7000		53.5	54.5	57.8	58.5	58.6	58.8	58.9	59.0	59.2	59.2	59.2	59.2	59.2	59.2	59.3
GE 6000		54.0	55.0	58.4	59.2	59.3	59.6	59.7	59.7	60.0	60.0	60.0	60.0	60.0	60.0	60.1
GE 5000		58.1	59.4	63.4	64.2	64.3	64.6	64.7	64.8	65.1	65.1	65.1	65.1	65.1	65.1	65.1
GE 4500		60.2	61.6	65.9	66.7	66.8	67.2	67.3	67.4	67.6	67.6	67.6	67.6	67.6	67.6	67.7
GE 4000		66.2	67.6	72.7	73.8	73.9	74.3	74.4	74.5	74.7	74.7	74.7	74.8	74.8	74.8	74.8
GE 3500		69.9	71.6	77.8	79.1	79.2	79.7	79.9	80.0	80.3	80.3	80.3	80.3	80.3	80.3	80.3
GE 3000		76.1	77.9	84.8	86.1	86.4	87.0	87.2	87.3	87.6	87.6	87.6	87.6	87.6	87.6	87.7
GE 2500		77.2	79.2	86.5	88.0	88.3	88.9	89.1	89.2	89.5	89.5	89.5	89.6	89.6	89.6	89.6
GE 2000		79.3	81.5	89.8	91.7	91.9	92.6	93.0	93.1	93.4	93.4	93.4	93.4	93.4	93.4	93.5
GE 1800		79.5	81.7	90.1	92.0	92.3	93.0	93.4	93.5	93.8	93.8	93.8	93.8	93.8	93.8	93.9
GE 1500		80.4	82.8	91.3	93.3	93.7	94.5	94.9	95.0	95.3	95.3	95.3	95.3	95.4	95.4	95.4
GE 1200		80.9	83.3	92.3	94.5	94.8	95.9	96.3	96.4	96.7	96.7	96.7	96.7	96.8	96.8	96.8
GE 1000		81.1	83.5	92.8	95.2	95.5	96.6	97.1	97.2	97.5	97.5	97.5	97.6	97.6	97.6	97.6
GE 900		81.2	83.6	93.0	95.4	95.7	96.9	97.3	97.5	97.8	97.8	97.8	97.9	97.9	97.9	97.9
GE 800		81.2	83.6	93.1	95.5	95.9	97.1	97.7	97.8	98.2	98.2	98.2	98.2	98.3	98.3	98.3
GE 700		81.2	83.7	93.2	95.8	96.3	97.5	98.1	98.2	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE 600		81.2	83.7	93.3	96.0	96.5	97.8	98.4	98.5	98.9	98.9	98.9	99.0	99.0	99.0	99.0
GE 500		81.2	83.7	93.5	96.2	96.8	98.1	98.7	98.8	99.4	99.4	99.4	99.5	99.5	99.5	99.5
GE 400		81.2	83.7	93.5	96.3	96.8	98.2	98.9	99.0	99.6	99.6	99.6	99.7	99.8	99.8	99.8
GE 300		81.2	83.7	93.5	96.3	96.8	98.2	98.9	99.0	99.6	99.6	99.6	99.7	99.8	99.8	99.9
GE 200		81.2	83.7	93.5	96.3	96.8	98.2	98.9	99.0	99.6	99.6	99.6	99.7	99.8	99.8	99.9
GE 100		81.2	83.7	93.5	96.3	96.8	98.2	98.9	99.0	99.6	99.6	99.6	99.7	99.8	99.8	100.0
GE 0		81.2	83.7	93.5	96.3	96.8	98.2	98.9	99.0	99.6	99.6	99.6	99.7	99.8	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS: 3428

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: JUN HOURS(LST): 0600-0800

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		27.5	28.5	33.7	36.2	36.5	37.6	38.0	38.2	38.2	38.3	38.3	38.3	38.3	38.5	38.5
GE 20000		31.6	32.7	39.1	41.8	42.1	43.5	44.0	44.1	44.1	44.3	44.3	44.3	44.3	44.4	44.4
GE 19000		31.8	32.8	39.2	42.0	42.3	43.7	44.1	44.3	44.3	44.4	44.4	44.4	44.4	44.6	44.6
GE 16000		31.9	33.0	39.4	42.1	42.4	43.8	44.3	44.4	44.4	44.6	44.6	44.6	44.6	44.7	44.7
GE 14000		32.1	33.1	39.5	42.3	42.6	44.0	44.4	44.6	44.6	44.7	44.7	44.7	44.7	44.9	44.9
GE 12000		34.2	35.3	41.7	44.4	44.7	46.1	46.6	46.7	46.7	46.9	46.9	46.9	46.9	47.0	47.0
GE 10000		36.6	37.7	45.0	47.9	48.2	49.8	50.4	50.5	50.5	50.7	50.7	50.7	50.7	50.8	50.8
GE 9000		38.5	39.5	48.9	52.1	52.4	53.9	54.5	54.7	54.7	54.8	54.8	54.8	54.8	55.0	55.0
GE 8000		44.1	45.2	55.1	58.6	58.9	60.6	61.4	61.5	61.5	61.7	61.7	61.7	61.7	61.8	61.8
GE 7000		45.8	47.0	58.0	61.5	61.8	63.5	64.3	64.4	64.4	64.6	64.6	64.6	64.6	64.7	64.7
GE 6000		46.7	47.9	59.2	62.9	63.2	64.9	65.6	65.8	65.8	66.0	66.0	66.0	66.0	66.1	66.1
GE 5000		51.1	52.4	64.1	67.8	68.1	69.8	70.5	70.7	70.7	70.8	70.8	70.8	70.8	71.0	71.0
GE 4500		54.0	55.3	67.3	71.0	71.3	73.0	73.7	73.9	73.9	74.0	74.0	74.0	74.0	74.2	74.2
GE 4000		58.0	59.7	72.5	76.3	76.6	78.8	79.8	80.0	80.5	80.6	80.6	80.6	80.6	80.8	80.8
GE 3500		59.5	61.4	74.8	79.1	79.5	82.0	83.1	83.2	83.7	83.8	83.8	83.8	83.8	84.0	84.0
GE 3000		62.7	64.6	79.1	83.7	84.1	87.2	88.2	88.4	88.9	89.0	89.0	89.0	89.0	89.2	89.2
GE 2500		63.8	65.8	80.6	85.6	86.1	89.5	90.5	90.7	91.1	91.3	91.3	91.3	91.3	91.5	91.5
GE 2000		65.0	67.0	82.4	87.6	88.1	91.5	92.5	92.7	93.1	93.3	93.3	93.3	93.3	93.4	93.4
GE 1800		65.2	67.3	82.9	88.4	88.9	92.2	93.3	93.4	93.9	94.0	94.0	94.0	94.0	94.2	94.2
GE 1500		65.5	67.6	84.1	89.9	90.4	94.0	95.3	95.4	95.9	96.0	96.0	96.0	96.0	96.2	96.2
GE 1200		65.6	67.9	84.7	90.7	91.1	94.8	96.0	96.2	96.6	96.8	96.8	96.8	96.8	96.9	96.9
GE 1000		66.1	68.4	85.5	91.5	91.9	95.6	96.8	96.9	97.4	97.6	97.6	97.6	97.6	97.7	97.7
GE 900		66.4	68.7	86.0	91.9	92.4	96.0	97.3	97.4	97.9	98.0	98.0	98.0	98.0	98.2	98.2
GE 800		66.4	68.7	86.4	92.4	92.8	96.5	97.7	97.9	98.3	98.5	98.5	98.5	98.6	98.8	98.8
GE 700		66.4	68.7	86.4	92.4	92.8	96.5	97.7	97.9	98.3	98.5	98.5	98.5	98.6	98.8	98.8
GE 600		66.4	68.7	86.4	92.4	92.8	96.5	97.7	97.9	98.3	98.5	98.5	98.5	98.9	99.1	99.2
GE 500		66.4	68.7	86.4	92.4	92.8	96.5	97.9	98.0	98.5	98.6	98.6	98.6	99.1	99.2	99.4
GE 400		66.4	68.7	86.4	92.4	92.8	96.5	97.9	98.0	98.5	98.6	98.6	98.6	99.1	99.2	99.4
GE 300		66.4	68.7	86.4	92.4	92.8	96.5	97.9	98.0	98.5	98.6	98.8	98.8	99.2	99.4	99.5
GE 200		66.4	68.7	86.4	92.4	92.8	96.5	97.9	98.0	98.5	98.6	98.8	98.8	99.2	99.7	99.8
GE 100		66.4	68.7	86.4	92.4	92.8	96.5	97.9	98.0	98.5	98.6	98.8	98.8	99.2	99.7	99.8
GE 0		66.4	68.7	86.4	92.4	92.8	96.5	97.9	98.0	98.5	98.6	98.8	98.8	99.2	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS: 655

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: JUN HOURS(LST): 0900-1100

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		31.1	32.1	34.8	35.6	35.6	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7
GE 20000		35.3	36.3	39.9	40.8	40.8	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0
GE 18000		35.4	36.5	40.0	41.0	41.0	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
GE 16000		35.6	36.7	40.2	41.1	41.1	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
GE 14000		35.9	37.0	40.5	41.4	41.4	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6
GE 12000		37.0	38.0	41.6	42.5	42.5	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
GE 10000		40.8	42.2	46.2	47.2	47.2	47.4	47.4	47.4	47.7	47.7	47.7	47.7	47.7	47.7	47.7
GE 9000		42.0	43.4	47.5	48.8	48.8	48.9	48.9	48.9	49.2	49.2	49.2	49.2	49.2	49.2	49.2
GE 8000		46.6	48.0	53.1	54.3	54.3	54.4	54.4	54.4	54.9	54.9	54.9	54.9	54.9	54.9	54.9
GE 7000		50.3	51.7	56.7	58.0	58.0	58.1	58.1	58.1	58.6	58.6	58.6	58.6	58.6	58.6	58.6
GE 6000		51.5	52.9	58.0	59.2	59.2	59.4	59.4	59.4	59.8	59.8	59.8	59.8	59.8	59.8	59.8
GE 5000		54.6	56.0	61.0	62.3	62.3	62.4	62.4	62.4	62.9	62.9	62.9	62.9	62.9	62.9	62.9
GE 4500		56.4	58.3	63.8	65.2	65.2	65.3	65.3	65.3	66.0	66.0	66.0	66.0	66.0	66.0	66.0
GE 4000		60.9	62.9	69.0	70.9	70.9	71.3	71.5	71.5	72.1	72.1	72.1	72.1	72.1	72.1	72.1
GE 3500		65.6	67.9	74.2	76.1	76.1	76.5	76.7	76.7	77.5	77.5	77.5	77.5	77.5	77.5	77.5
GE 3000		74.2	77.1	84.0	86.0	86.0	87.1	87.3	87.3	88.0	88.0	88.0	88.0	88.0	88.0	88.0
GE 2500		76.8	79.8	86.8	88.8	88.8	90.2	90.3	90.3	91.1	91.1	91.1	91.1	91.1	91.1	91.1
GE 2000		78.5	81.7	89.7	92.0	92.0	93.7	93.9	93.9	94.6	94.6	94.6	94.6	94.6	94.6	94.6
GE 1800		79.3	82.5	90.6	92.9	92.9	94.6	94.8	94.8	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 1500		80.4	83.6	92.2	94.9	94.9	96.8	97.1	97.1	97.9	97.9	97.9	97.9	97.9	97.9	97.9
GE 1200		81.0	84.2	93.1	96.0	96.0	97.9	98.2	98.2	98.9	98.9	98.9	98.9	98.9	98.9	98.9
GE 1000		81.0	84.2	93.3	96.3	96.3	98.2	98.5	98.5	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 900		81.0	84.2	93.4	96.5	96.5	98.3	98.6	98.6	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 800		81.0	84.2	93.4	96.6	96.6	98.5	98.8	98.8	99.5	99.5	99.5	99.7	99.7	99.7	99.7
GE 700		81.0	84.2	93.4	96.6	96.6	98.5	98.8	98.8	99.5	99.5	99.5	99.7	99.7	99.7	99.7
GE 600		81.0	84.2	93.4	96.6	96.6	98.6	98.9	98.9	99.7	99.7	99.7	100.0	100.0	100.0	100.0
GE 500		81.0	84.2	93.4	96.6	96.6	98.6	98.9	98.9	99.7	99.7	99.7	100.0	100.0	100.0	100.0
GE 400		81.0	84.2	93.4	96.6	96.6	98.6	98.9	98.9	99.7	99.7	99.7	100.0	100.0	100.0	100.0
GE 300		81.0	84.2	93.4	96.6	96.6	98.6	98.9	98.9	99.7	99.7	99.7	100.0	100.0	100.0	100.0
GE 200		81.0	84.2	93.4	96.6	96.6	98.6	98.9	98.9	99.7	99.7	99.7	100.0	100.0	100.0	100.0
GE 100		81.0	84.2	93.4	96.6	96.6	98.6	98.9	98.9	99.7	99.7	99.7	100.0	100.0	100.0	100.0
GE 0		81.0	84.2	93.4	96.6	96.6	98.6	98.9	98.9	99.7	99.7	99.7	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 652

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 77-86
MONTH: JUN HOURS(LST): 1200-1400

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		31.0	31.8	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
GE 20000		35.3	36.1	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0
GE 18000		35.6	36.4	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3
GE 16000		35.8	36.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5
GE 14000		36.2	37.0	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9
GE 12000		38.4	39.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1
GE 10000		41.3	42.5	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
GE 9000		42.5	43.7	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
GE 8000		49.2	50.5	52.4	52.4	52.4	52.4	52.4	52.4	52.6	52.6	52.6	52.6	52.6	52.6	52.6
GE 7000		51.8	53.1	55.0	55.0	55.0	55.0	55.0	55.0	55.2	55.2	55.2	55.2	55.2	55.2	55.2
GE 6000		51.8	53.1	55.0	55.0	55.0	55.0	55.0	55.0	55.2	55.2	55.2	55.2	55.2	55.2	55.2
GE 5000		57.0	58.3	60.7	60.7	60.7	60.7	60.7	60.7	60.9	60.9	60.9	60.9	60.9	60.9	60.9
GE 4500		60.6	61.9	64.5	64.7	64.7	64.7	64.7	64.7	64.8	64.8	64.8	64.8	64.8	64.8	64.8
GE 4000		68.5	70.0	73.5	73.9	73.9	73.9	73.9	73.9	74.0	74.0	74.0	74.0	74.0	74.0	74.0
GE 3500		75.1	76.9	80.6	81.2	81.2	81.3	81.5	81.5	81.7	81.7	81.7	81.7	81.7	81.7	81.7
GE 3000		83.0	84.9	89.3	89.9	90.1	90.6	90.7	90.7	90.8	90.8	90.8	90.8	90.8	90.8	90.8
GE 2500		85.3	87.3	91.7	92.4	92.6	93.0	93.1	93.1	93.3	93.3	93.3	93.3	93.3	93.3	93.3
GE 2000		87.0	89.4	94.3	95.1	95.3	96.0	96.3	96.3	96.5	96.5	96.5	96.5	96.5	96.5	96.5
GE 1800		87.7	90.1	95.7	96.5	96.6	97.4	97.7	97.7	97.9	97.9	97.9	97.9	97.9	97.9	97.9
GE 1500		88.-	91.3	97.1	98.0	98.2	99.1	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 1200		88.8	91.3	97.2	98.2	98.3	99.2	99.5	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 1000		88.8	91.3	97.6	98.5	98.6	99.5	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 900		88.8	91.3	97.6	98.5	98.6	99.5	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 800		88.8	91.3	97.6	98.5	98.6	99.5	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 700		88.8	91.3	97.6	98.5	98.6	99.5	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 600		88.8	91.3	97.6	98.5	98.6	99.5	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 500		88.8	91.3	97.6	98.5	98.6	99.5	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400		88.8	91.3	97.6	98.5	98.6	99.5	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300		88.8	91.3	97.6	98.5	98.6	99.5	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200		88.8	91.3	97.6	98.5	98.6	99.5	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100		88.8	91.3	97.6	98.5	98.6	99.5	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 0		88.8	91.3	97.6	98.5	98.6	99.5	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 684

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HAHAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: JUN HOURS(LST): 1800-1700

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		29.8	29.9	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1
GE 20000		35.2	36.8	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0
GE 18000		36.4	37.0	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1
GE 16000		36.4	37.0	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1
GE 14000		36.4	37.0	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1
GE 12000		37.3	38.1	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2
GE 10000		42.0	42.8	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
GE 9000		45.1	45.9	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7
GE 8000		54.4	55.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
GE 7000		57.7	58.8	59.7	59.9	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
GE 6000		59.2	60.3	61.3	61.4	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
GE 5000		65.7	66.8	68.0	68.2	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
GE 4500		69.3	70.4	72.7	72.9	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
GE 4000		75.7	77.0	80.3	80.6	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
GE 3500		82.6	84.0	87.9	88.2	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
GE 3000		87.3	89.7	93.7	94.0	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
GE 2500		90.0	91.8	96.2	96.6	96.7	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
GE 2200		90.4	92.3	97.0	97.5	97.6	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
GE 1800		90.4	92.5	97.2	97.6	98.0	98.1	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
GE 1500		90.8	92.9	97.0	98.6	98.9	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 1200		91.1	93.4	98.4	99.2	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 1000		91.1	93.4	98.4	99.2	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 900		91.1	93.4	98.4	99.2	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 800		91.1	93.4	98.4	99.2	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 700		91.1	93.4	98.4	99.2	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 600		91.1	93.4	98.4	99.2	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 500		91.1	93.4	98.4	99.2	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400		91.1	93.4	98.4	99.2	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300		91.1	93.4	98.4	99.2	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200		91.1	93.4	98.4	99.2	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100		91.1	93.4	98.4	99.2	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 0		91.1	93.4	98.4	99.2	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 638

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HAHAU AAF GERMANY PERIOD OF RECORD 77-86
MONTH: JUN HOURS(LST): 1800-2000

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		34.0	34.0	35.1	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2
GE 20000		43.1	43.3	44.7	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9
GE 18000		43.3	43.5	44.9	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
GE 16000		43.3	43.5	44.9	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
GE 14000		44.0	44.2	45.6	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8
GE 12000		44.2	44.4	45.8	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0
GE 10000		48.8	49.0	50.8	51.0	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
GE 9000		53.1	53.3	55.1	55.3	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
GE 8000		64.2	64.4	66.2	66.4	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
GE 7000		67.4	67.6	69.6	69.8	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
GE 6000		68.9	69.1	71.0	71.2	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
GE 5000		73.5	73.9	76.4	76.6	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
GE 4500		78.9	79.4	81.9	82.1	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
GE 4000		85.3	86.0	88.9	89.4	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
GE 3500		87.7	88.4	91.4	92.1	92.5	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
GE 3000		90.9	91.8	95.7	96.6	97.0	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
GE 2500		91.9	92.8	97.0	97.9	98.2	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE 2000		92.1	93.0	97.1	98.4	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
GE 1800		92.3	93.2	97.3	98.6	98.9	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 1500		92.5	93.7	97.9	99.1	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 1200		92.5	93.7	97.9	99.1	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 1000		92.5	93.7	97.9	99.1	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 900		92.5	93.7	97.9	99.1	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 800		92.5	93.7	97.9	99.1	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 700		92.5	93.7	97.9	99.1	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 600		92.5	93.7	97.9	99.1	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 500		92.5	93.7	97.9	99.1	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400		92.5	93.7	97.9	99.1	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300		92.5	93.7	97.9	99.1	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200		92.5	93.7	97.9	99.1	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100		92.5	93.7	97.9	99.1	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 0		92.5	93.7	97.9	99.1	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 559

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HAHAU AAF GERMANY PERIOD OF RECORD: 77-86
MONTH: JUN HOURS(LST): 2100-2300

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		39.1	39.1	40.6	40.9	41.2	41.8	41.8	42.1	42.1	42.1	42.4	42.4	42.4	42.4	42.4
GE 20000		45.7	46.0	48.4	49.0	49.3	49.9	49.9	50.1	50.1	50.1	50.4	50.4	50.4	50.4	50.4
GE 18000		45.7	46.0	48.4	49.0	49.3	49.9	49.9	50.1	50.1	50.1	50.4	50.4	50.4	50.4	50.4
GE 16000		45.7	46.0	48.4	49.0	49.3	49.9	49.9	50.1	50.1	50.1	50.4	50.4	50.4	50.4	50.4
GE 14000		45.7	46.0	48.4	49.0	49.3	49.9	49.9	50.1	50.1	50.1	50.4	50.4	50.4	50.4	50.4
GE 12000		45.7	46.0	48.4	49.0	49.3	49.9	49.9	50.1	50.1	50.1	50.4	50.4	50.4	50.4	50.4
GE 10000		47.8	48.7	51.6	52.2	52.8	53.4	53.4	53.7	53.7	53.7	54.0	54.0	54.0	54.0	54.0
GE 9000		49.6	50.4	54.0	54.6	55.2	55.8	55.8	56.1	56.1	56.1	56.4	56.4	56.4	56.4	56.4
GE 8000		57.9	59.1	63.9	64.5	65.1	65.7	65.7	66.0	66.0	66.0	66.3	66.3	66.3	66.3	66.3
GE 7000		60.3	61.5	66.9	67.5	68.1	69.0	69.0	69.3	69.3	69.3	69.6	69.6	69.6	69.6	69.6
GE 6000		61.2	62.4	67.8	68.4	69.0	69.9	69.9	70.1	70.1	70.1	70.4	70.4	70.4	70.4	70.4
GE 5000		65.1	66.6	72.5	73.1	73.7	74.6	74.6	74.9	74.9	74.9	75.2	75.2	75.2	75.2	75.2
GE 4500		70.7	72.2	78.2	78.8	79.4	80.3	80.3	80.6	80.6	80.6	80.9	80.9	80.9	80.9	80.9
GE 4000		76.4	77.9	84.2	85.4	86.0	86.9	87.2	87.5	87.5	87.5	87.8	87.8	87.8	87.8	87.8
GE 3500		80.6	82.4	88.7	90.1	90.7	91.6	92.2	92.5	92.5	92.5	92.8	92.8	92.8	92.8	92.8
GE 3000		83.9	86.0	93.1	95.5	96.1	97.0	97.6	97.9	97.9	97.9	98.2	98.2	98.2	98.2	98.2
GE 2500		84.2	86.3	93.4	95.8	96.4	97.3	97.9	98.2	98.2	98.2	98.5	98.5	98.5	98.5	98.5
GE 2000		84.2	86.3	94.6	97.0	97.6	98.5	99.1	99.4	99.4	99.4	99.7	99.7	99.7	99.7	99.7
GE 1800		84.2	86.3	94.9	97.3	97.9	98.8	99.4	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0
GE 1500		84.2	86.3	94.9	97.3	97.9	98.8	99.4	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0
GE 1200		84.2	86.3	94.9	97.3	97.9	98.8	99.4	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0
GE 1000		84.2	86.3	94.9	97.3	97.9	98.8	99.4	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0
GE 900		84.2	86.3	94.9	97.3	97.9	98.8	99.4	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0
GE 800		84.2	86.3	94.9	97.3	97.9	98.8	99.4	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0
GE 700		84.2	86.3	94.9	97.3	97.9	98.8	99.4	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0
GE 600		84.2	86.3	94.9	97.3	97.9	98.8	99.4	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0
GE 500		84.2	86.3	94.9	97.3	97.9	98.8	99.4	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0
GE 400		84.2	86.3	94.9	97.3	97.9	98.8	99.4	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0
GE 300		84.2	86.3	94.9	97.3	97.9	98.8	99.4	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0
GE 200		84.2	86.3	94.9	97.3	97.9	98.8	99.4	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0
GE 100		84.2	86.3	94.9	97.3	97.9	98.8	99.4	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0
GE 0		84.2	86.3	94.9	97.3	97.9	98.8	99.4	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 335

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 77-86
MONTH: JUN HOURS(LST): ALL

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		31.4	31.9	33.9	34.6	34.7	35.0	35.0	35.1	35.1	35.1	35.2	35.2	35.2	35.2	35.2
GE 20000		37.0	37.7	40.3	41.0	41.1	41.5	41.5	41.6	41.6	41.6	41.7	41.7	41.7	41.7	41.7
GE 18000		37.2	37.9	40.4	41.2	41.3	41.6	41.7	41.8	41.8	41.8	41.8	41.8	41.8	41.9	41.9
GE 16000		37.3	38.0	40.5	41.3	41.4	41.7	41.8	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9
GE 14000		37.6	38.3	40.8	41.6	41.7	42.0	42.1	42.1	42.1	42.2	42.2	42.2	42.2	42.2	42.2
GE 12000		38.8	39.5	42.0	42.8	42.9	43.2	43.3	43.4	43.4	43.4	43.4	43.4	43.4	43.5	43.5
GE 10000		42.3	43.2	46.2	47.0	47.2	47.6	47.7	47.7	47.8	47.8	47.8	47.8	47.8	47.9	47.9
GE 9000		44.5	45.5	49.0	49.9	50.0	50.4	50.5	50.6	50.6	50.7	50.7	50.7	50.7	50.7	50.7
GE 8000		52.0	53.0	57.1	58.0	58.2	58.6	58.7	58.8	58.9	58.9	58.9	58.9	58.9	59.0	59.0
GE 7000		54.8	55.9	60.2	61.2	61.4	61.8	62.0	62.0	62.2	62.2	62.2	62.2	62.2	62.2	62.2
GE 6000		55.8	56.9	61.3	62.3	62.5	62.9	63.1	63.1	63.2	63.3	63.3	63.3	63.3	63.3	63.3
GE 5000		60.5	61.6	66.4	67.4	67.6	68.1	68.2	68.3	68.4	68.4	68.4	68.4	68.4	68.5	68.5
GE 4500		64.1	65.3	70.5	71.6	71.8	72.2	72.4	72.4	72.6	72.6	72.6	72.6	72.6	72.7	72.7
GE 4000		69.9	71.3	77.2	78.6	78.8	79.4	79.6	79.7	79.9	79.9	80.0	80.0	80.0	80.0	80.0
GE 3500		74.3	76.0	82.2	83.7	84.0	84.7	85.0	85.1	85.3	85.3	85.4	85.4	85.4	85.4	85.4
GE 3000		79.8	81.7	88.6	90.4	90.6	91.7	92.0	92.0	92.3	92.3	92.4	92.4	92.4	92.4	92.4
GE 2500		81.5	83.5	90.6	92.4	92.7	93.8	94.2	94.2	94.5	94.5	94.5	94.5	94.5	94.6	94.6
GE 2000		82.5	84.6	92.2	94.3	94.5	95.8	96.2	96.2	96.5	96.5	96.6	96.6	96.6	96.6	96.6
GE 1800		82.8	85.0	92.8	94.9	95.2	96.5	96.9	96.9	97.2	97.2	97.3	97.3	97.3	97.3	97.3
GE 1500		83.4	85.6	93.8	96.1	96.4	97.8	98.3	98.3	98.6	98.6	98.6	98.6	98.6	98.7	98.7
GE 1200		83.6	85.9	94.2	96.6	96.9	98.3	98.8	98.8	99.1	99.1	99.1	99.1	99.1	99.2	99.2
GE 1000		83.7	86.0	94.4	96.9	97.2	98.6	99.0	99.1	99.3	99.4	99.4	99.4	99.4	99.4	99.4
GE 900		83.7	86.0	94.6	97.0	97.3	98.7	99.1	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 800		83.7	86.0	94.5	97.1	97.4	98.8	99.3	99.3	99.6	99.6	99.6	99.7	99.7	99.7	99.7
GE 700		83.7	86.0	94.6	97.1	97.4	98.8	99.3	99.3	99.6	99.6	99.6	99.7	99.7	99.7	99.7
GE 600		83.7	86.0	94.6	97.1	97.4	98.9	99.3	99.3	99.6	99.6	99.7	99.7	99.8	99.8	99.9
GE 500		83.7	86.0	94.6	97.1	97.4	98.9	99.3	99.4	99.6	99.7	99.7	99.7	99.8	99.9	99.9
GE 400		83.7	86.0	94.6	97.1	97.4	98.9	99.3	99.4	99.6	99.7	99.7	99.7	99.8	99.9	99.9
GE 300		83.7	86.0	94.6	97.1	97.4	98.9	99.3	99.4	99.6	99.7	99.7	99.8	99.9	99.9	99.9
GE 200		83.7	86.0	94.6	97.1	97.4	98.9	99.3	99.4	99.6	99.7	99.7	99.8	99.9	99.9	100.0
GE 100		83.7	86.0	94.6	97.1	97.4	98.9	99.3	99.4	99.6	99.7	99.7	99.8	99.9	99.9	100.0
GE 0		83.7	86.0	94.6	97.1	97.4	98.9	99.3	99.4	99.6	99.7	99.7	99.8	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 3493

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HAHAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: JUL HOURS(LST): 0600-0800

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		29.3	31.4	34.9	37.2	37.2	37.7	38.2	38.2	38.3	38.3	38.3	38.3	38.3	38.3	38.5
GE 20000		31.7	34.4	38.5	41.0	41.0	41.6	42.1	42.1	42.3	42.3	42.3	42.3	42.3	42.3	42.4
GE 18000		32.1	34.7	38.8	41.3	41.3	41.9	42.4	42.4	42.6	42.6	42.6	42.6	42.6	42.6	42.8
GE 16000		32.1	34.7	38.8	41.3	41.3	41.9	42.4	42.4	42.6	42.6	42.6	42.6	42.6	42.6	42.8
GE 14000		32.4	35.0	39.1	41.6	41.6	42.3	42.8	42.8	42.9	42.9	42.9	42.9	42.9	42.9	43.1
GE 12000		33.2	36.2	40.5	42.9	42.9	43.6	44.1	44.1	44.2	44.2	44.2	44.2	44.2	44.2	44.4
GE 10000		35.5	39.6	44.7	47.5	47.5	48.2	48.7	48.7	49.0	49.0	49.0	49.0	49.0	49.0	49.2
GE 9000		37.3	40.5	46.1	49.2	49.2	50.2	50.7	50.7	51.3	51.3	51.3	51.3	51.3	51.3	51.5
GE 8000		41.1	44.4	51.3	54.4	54.4	55.4	55.9	55.9	56.6	56.6	56.6	56.6	56.6	56.6	56.7
GE 7000		42.3	45.6	53.6	56.9	56.9	57.9	58.4	58.4	59.2	59.2	59.2	59.2	59.2	59.2	59.4
GE 6000		44.1	47.7	55.9	59.2	59.2	60.2	60.7	60.7	61.5	61.5	61.5	61.5	61.5	61.5	61.7
GE 5000		48.2	53.0	62.7	66.1	66.3	67.4	67.9	67.9	68.9	68.9	68.9	68.9	68.9	68.9	69.1
GE 4500		50.7	55.6	66.1	70.4	70.6	71.7	72.2	72.2	73.2	73.2	73.2	73.2	73.2	73.2	73.4
GE 4000		54.8	60.4	72.7	77.0	77.1	78.5	79.3	79.3	80.3	80.3	80.3	80.3	80.3	80.3	80.4
GE 3500		57.2	63.3	76.2	81.1	81.4	82.7	83.6	83.6	84.5	84.5	84.5	84.5	84.5	84.5	84.7
GE 3000		61.2	67.4	80.9	86.5	86.8	88.5	89.3	89.3	90.5	90.5	90.5	90.5	90.5	90.5	90.6
GE 2500		61.8	68.1	82.4	88.0	88.3	90.1	91.0	91.0	92.1	92.1	92.1	92.1	92.1	92.1	92.3
GE 2000		62.8	69.2	83.9	90.0	90.8	92.8	93.6	93.6	94.7	94.7	94.7	94.7	94.7	94.7	94.9
GE 1800		63.0	69.6	84.2	90.3	91.1	93.1	93.9	93.9	95.1	95.1	95.1	95.1	95.1	95.1	95.2
GE 1500		63.0	69.7	84.7	91.1	91.9	93.9	94.7	94.7	95.9	95.9	95.9	95.9	95.9	95.9	96.1
GE 1200		63.5	70.4	86.0	92.4	93.3	95.2	96.1	96.1	97.2	97.2	97.2	97.2	97.2	97.2	97.4
GE 1000		63.8	70.7	86.3	92.8	93.6	95.7	96.5	96.5	97.7	97.7	97.7	97.7	97.7	97.7	97.9
GE 900		63.8	70.7	86.3	92.9	93.8	95.9	96.7	96.7	97.9	97.9	97.9	97.9	97.9	97.9	98.0
GE 800		63.8	70.7	86.3	92.9	93.8	96.1	96.9	96.9	98.0	98.0	98.0	98.0	98.0	98.0	98.2
GE 700		64.0	71.1	86.8	93.4	94.2	96.5	97.4	97.4	98.5	98.5	98.5	98.5	98.5	98.5	98.7
GE 600		64.1	71.2	87.0	93.6	94.4	96.7	97.5	97.5	98.7	98.7	98.7	98.7	98.7	98.7	98.8
GE 500		64.1	71.2	87.0	93.6	94.4	96.7	97.5	97.5	98.7	98.7	98.7	98.7	98.7	98.7	98.8
GE 400		64.1	71.2	87.0	93.6	94.4	96.9	97.7	97.7	98.8	98.8	98.8	99.0	99.0	99.0	99.2
GE 300		64.1	71.2	87.0	93.6	94.4	96.9	97.7	97.7	99.0	99.0	99.0	99.2	99.5	99.5	99.7
GE 200		64.1	71.2	87.0	93.6	94.4	96.9	97.7	97.7	99.0	99.0	99.0	99.2	99.5	99.5	100.0
GE 100		64.1	71.2	87.0	93.6	94.4	96.9	97.7	97.7	99.0	99.0	99.0	99.2	99.5	99.5	100.0
GE 0		64.1	71.2	87.0	93.6	94.4	96.9	97.7	97.7	99.0	99.0	99.0	99.2	99.5	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS: 608

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: JUL HOURS(LST): 0900-1100

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		33.6	35.0	38.1	38.1	38.1	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3
GE 20000		36.9	38.6	42.2	42.9	43.0	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
GE 18000		37.2	38.9	42.7	43.3	43.5	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
GE 16000		37.4	39.1	42.9	43.5	43.6	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8
GE 14000		37.8	39.6	43.3	44.0	44.1	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
GE 12000		39.1	41.0	44.7	45.4	45.5	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
GE 10000		42.5	44.6	46.7	49.5	49.6	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8
GE 9000		43.6	45.7	50.7	51.6	51.8	52.0	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
GE 8000		49.3	51.8	57.9	58.9	59.0	59.2	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3
GE 7000		50.7	53.5	59.5	60.6	60.8	60.9	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
GE 6000		51.2	54.2	60.3	61.4	61.5	61.7	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
GE 5000		55.1	58.4	65.5	66.6	66.7	66.9	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
GE 4500		59.8	63.4	71.0	72.1	72.2	72.4	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
GE 4000		65.0	68.8	76.8	78.2	78.3	78.8	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
GE 3500		69.7	73.8	82.3	83.7	83.8	84.3	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
GE 3000		76.0	80.2	89.3	91.1	91.2	91.7	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
GE 2500		77.7	81.9	91.1	92.8	93.1	93.9	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
GE 2000		79.1	83.4	92.8	95.1	95.4	96.2	96.4	96.4	96.5	96.5	96.5	96.5	96.5	96.5	96.5
GE 1800		79.1	83.4	92.8	95.1	95.4	96.2	96.4	96.4	96.5	96.5	96.5	96.5	96.5	96.5	96.5
GE 1500		79.3	83.7	93.7	96.2	96.5	97.3	97.5	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6
GE 1200		79.7	84.1	94.5	97.3	97.6	98.4	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE 1000		80.2	84.8	95.1	98.0	98.4	99.2	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 900		80.2	84.8	95.1	98.0	98.6	99.4	99.5	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 800		80.2	84.8	95.1	98.0	98.6	99.4	99.5	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 700		80.2	84.8	95.1	98.0	98.6	99.4	99.5	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 600		80.2	84.8	95.1	98.0	98.6	99.4	99.5	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 500		80.2	84.8	95.1	98.1	98.7	99.5	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 400		80.2	84.8	95.1	98.3	98.9	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300		80.2	84.8	95.1	98.3	98.9	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200		80.2	84.8	95.1	98.3	98.9	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100		80.2	84.8	95.1	98.3	98.9	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 0		80.2	84.8	95.1	98.3	98.9	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 637

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105420 STATION NAME: HAVAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: JUL HOURS(LST): 1200-1400

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		34.9	34.9	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8
GE 20000		44.3	44.3	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4
GE 18000		45.3	45.3	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4
GE 16000		45.3	45.3	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4
GE 14000		45.9	45.9	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
GE 12000		46.9	47.3	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
GE 10000		50.5	50.9	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
GE 9000		51.3	51.7	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
GE 8000		57.1	57.5	59.9	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1
GE 7000		59.3	59.7	62.4	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
GE 6000		61.2	61.6	64.3	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
GE 5000		67.0	67.5	70.1	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
GE 4500		71.5	72.0	74.8	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
GE 4000		77.2	77.7	80.5	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
GE 3500		83.2	83.6	86.8	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
GE 3000		90.7	91.2	94.7	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
GE 2500		91.7	92.3	95.8	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
GE 2000		93.4	94.0	97.6	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
GE 1800		93.4	94.0	97.6	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
GE 1500		93.4	94.0	98.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE 1200		93.4	94.0	98.1	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 1000		93.6	94.2	98.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 900		93.6	94.2	98.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 800		93.6	94.2	98.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 700		93.6	94.2	98.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 600		93.6	94.2	98.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 500		93.6	94.2	98.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400		93.6	94.2	98.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300		93.6	94.2	98.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200		93.6	94.2	98.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100		93.6	94.2	98.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 0		93.6	94.2	98.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 636

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HAHAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: JUL HOURS(LST): 1500-1700

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		38.4	38.7	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
GE 20000		46.1	46.4	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3
GE 18000		46.1	46.4	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3
GE 16000		46.4	46.7	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6
GE 14000		46.5	46.9	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
GE 12000		47.3	47.8	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
GE 10000		50.3	50.8	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9
GE 9000		53.1	53.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
GE 8000		59.6	60.1	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
GE 7000		63.8	64.5	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9
GE 6000		65.6	66.2	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
GE 5000		71.7	72.3	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
GE 4500		76.9	77.5	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
GE 4000		83.5	84.1	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
GE 3500		87.6	88.2	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
GE 3000		91.8	92.6	95.4	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 2500		93.4	94.2	97.0	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
GE 2000		94.7	95.4	99.1	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 1800		94.8	95.6	99.2	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 1500		95.1	95.9	99.5	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 1200		95.1	96.1	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 1000		95.1	96.1	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 900		95.1	96.1	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 800		95.1	96.1	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 700		95.1	96.1	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 600		95.1	96.1	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 500		95.1	96.1	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400		95.1	96.1	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300		95.1	96.1	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200		95.1	96.1	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100		95.1	96.1	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 0		95.1	96.1	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 636

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105420 STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 77-86
MONTH: JUL HOURS(LST): 1800-2000

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		42.6	43.3	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
GE 20000		51.0	51.7	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3
GE 18000		51.5	52.2	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
GE 16000		51.5	52.2	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
GE 14000		51.8	52.5	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
GE 12000		52.8	53.5	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
GE 10000		55.9	56.5	57.2	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
GE 9000		57.2	57.9	58.7	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9
GE 8000		62.7	63.5	64.5	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
GE 7000		65.6	66.4	67.4	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
GE 6000		66.7	67.6	68.6	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
GE 5000		74.1	75.1	76.1	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
GE 4500		79.8	80.9	81.9	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
GE 4000		87.6	89.1	91.8	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
GE 3500		90.0	91.5	94.1	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
GE 3000		91.6	93.3	96.7	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
GE 2500		92.8	94.6	98.2	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE 2000		93.3	95.2	99.0	99.5	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 1800		93.3	95.2	99.0	99.5	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 1500		93.5	95.3	99.2	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 1200		93.5	95.3	99.2	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 1000		93.6	95.5	99.3	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 900		93.6	95.5	99.3	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 800		93.6	95.5	99.3	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 700		93.6	95.5	99.3	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 600		93.6	95.5	99.3	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 500		93.6	95.5	99.3	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400		93.6	95.5	99.3	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300		93.6	95.5	99.3	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200		93.6	95.5	99.3	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100		93.6	95.5	99.3	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 0		93.6	95.5	99.3	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 598

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS.

STATION NUMBER: 105420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: JUL HOURS(LST): 2100-2300

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		42.0	43.9	46.4	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9
GE 20000		46.1	48.2	50.9	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
GE 18000		46.4	48.5	51.2	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
GE 16000		46.4	48.5	51.2	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
GE 14000		46.6	48.8	51.5	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3
GE 12000		48.0	50.1	52.8	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
GE 10000		49.3	51.8	55.3	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
GE 9000		50.7	53.1	56.9	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
GE 8000		56.1	58.8	62.8	63.9	63.9	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
GE 7000		58.5	61.2	66.3	67.9	67.9	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
GE 6000		60.4	63.6	68.7	70.4	70.4	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
GE 5000		68.2	71.4	77.4	79.0	79.0	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
GE 4500		71.2	74.4	80.6	82.2	82.2	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
GE 4000		75.5	79.5	87.3	89.5	89.5	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
GE 3500		76.8	81.4	89.8	91.9	91.9	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
GE 3000		79.8	84.9	93.8	96.2	96.2	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
GE 2500		80.3	85.7	95.7	98.1	98.1	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
GE 2000		80.6	86.3	96.2	98.7	98.7	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 1800		80.6	86.3	96.2	98.7	98.7	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 1500		80.9	86.5	96.5	98.9	98.9	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 1200		80.9	86.5	96.5	98.9	98.9	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 1000		80.9	86.5	96.5	98.9	98.9	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 900		80.9	86.5	96.5	98.9	98.9	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 800		80.9	86.5	96.5	98.9	98.9	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 700		80.9	86.5	96.5	98.9	98.9	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 600		80.9	86.5	96.5	98.9	98.9	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 500		80.9	86.5	96.5	98.9	98.9	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400		80.9	86.5	96.5	98.9	98.9	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300		80.9	86.5	96.5	98.9	98.9	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200		80.9	86.5	96.5	98.9	98.9	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100		80.9	86.5	96.5	98.9	98.9	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 0		80.9	86.5	96.5	98.9	98.9	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 371

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 77-86
MONTH: JUL HOURS(LST): ALL

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		36.4	37.4	39.2	39.7	39.7	39.8	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9
GE 20000		42.4	43.6	45.8	46.4	46.4	46.6	46.6	46.6	46.7	46.7	46.7	46.7	46.7	46.7	46.7
GE 18000		42.8	44.0	46.2	46.8	46.8	47.0	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
GE 16000		42.9	44.1	46.3	46.9	46.9	47.1	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
GE 14000		43.3	44.5	46.6	47.3	47.3	47.4	47.5	47.5	47.6	47.6	47.6	47.6	47.6	47.6	47.6
GE 12000		44.3	45.7	47.9	48.5	48.5	48.7	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8
GE 10000		47.4	48.8	51.5	52.2	52.3	52.4	52.5	52.5	52.6	52.6	52.6	52.6	52.6	52.6	52.6
GE 9000		48.7	50.2	53.2	54.0	54.1	54.3	54.4	54.4	54.5	54.5	54.5	54.5	54.5	54.5	54.5
GE 8000		54.2	55.8	59.4	60.3	60.4	60.6	60.7	60.7	60.8	60.8	60.8	60.8	60.8	60.8	60.8
GE 7000		56.6	58.3	62.2	63.3	63.3	63.5	63.6	63.6	63.8	63.8	63.8	63.8	63.8	63.8	63.8
GE 6000		58.0	59.9	63.9	64.9	64.9	65.2	65.3	65.3	65.4	65.4	65.4	65.4	65.4	65.4	65.5
GE 5000		63.7	65.9	70.4	71.5	71.5	71.8	71.9	71.9	72.1	72.1	72.1	72.1	72.1	72.1	72.1
GE 4500		68.1	70.4	75.2	76.4	76.4	76.7	76.8	76.8	77.0	77.0	77.0	77.0	77.0	77.0	77.0
GE 4000		73.8	76.4	82.1	83.4	83.5	83.9	84.1	84.1	84.3	84.3	84.3	84.3	84.3	84.3	84.3
GE 3500		77.5	80.2	86.4	87.9	88.0	88.4	88.5	88.5	88.7	88.7	88.7	88.7	88.7	88.7	88.7
GE 3000		82.1	85.0	91.7	93.4	93.5	94.0	94.1	94.1	94.3	94.3	94.3	94.3	94.3	94.3	94.4
GE 2500		83.2	86.2	93.2	95.0	95.1	95.6	95.8	95.8	96.0	96.0	96.0	96.0	96.0	96.0	96.0
GE 2000		84.3	87.4	94.7	96.7	96.9	97.5	97.7	97.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0
GE 1800		84.4	87.5	94.8	96.8	97.0	97.6	97.8	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.1
GE 1500		84.5	87.7	95.2	97.4	97.6	98.2	98.4	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.7
GE 1200		84.7	87.9	95.6	97.9	98.1	98.7	98.9	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 1000		84.9	88.1	95.9	98.2	98.4	99.1	99.3	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 900		84.9	88.1	95.9	98.2	98.5	99.1	99.3	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.6
GE 800		84.9	88.1	95.9	98.2	98.5	99.1	99.3	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 700		84.9	88.2	96.0	98.3	98.5	99.2	99.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 600		84.9	88.2	96.0	98.3	98.6	99.3	99.5	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 500		84.9	88.2	96.0	98.4	98.6	99.3	99.5	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.8
GE 400		84.9	88.2	96.0	98.4	98.7	99.4	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.9
GE 300		84.9	88.2	96.0	98.4	98.7	99.4	99.6	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9
GE 200		84.9	88.2	96.0	98.4	98.7	99.4	99.6	99.6	99.8	99.8	99.8	99.9	99.9	99.9	100.0
GE 100		84.9	88.2	96.0	98.4	98.7	99.4	99.6	99.6	99.8	99.8	99.8	99.9	99.9	99.9	100.0
GE 0		84.9	88.2	96.0	98.4	98.7	99.4	99.6	99.6	99.8	99.8	99.8	99.9	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS: 3486

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10542D STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 76-85
MONTH: AUG HOURS(LST): 0600-0800

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		22.8	25.4	35.3	39.7	40.1	40.9	41.7	42.5	42.8	43.0	43.0	43.2	43.4	43.4	43.7
GE 20000		26.1	29.0	39.8	44.4	44.8	46.0	46.8	47.7	48.0	48.1	48.1	48.4	48.6	48.6	48.9
GE 18000		26.3	29.2	40.7	45.4	45.8	47.0	47.8	48.7	49.0	49.1	49.1	49.4	49.6	49.6	49.9
GE 16000		26.4	29.3	40.8	45.5	46.0	47.1	48.0	48.9	49.1	49.3	49.3	49.6	49.7	49.7	50.0
GE 14000		26.6	29.6	41.2	46.1	46.6	47.7	48.6	49.4	49.7	49.9	49.9	50.1	50.3	50.3	50.6
GE 12000		27.3	30.3	42.4	47.6	48.0	49.6	50.4	51.3	51.6	51.7	51.7	52.0	52.2	52.2	52.4
GE 10000		29.9	33.5	46.6	51.9	52.3	54.2	55.2	56.0	56.8	56.9	56.9	57.2	57.3	57.3	57.6
GE 9000		31.5	35.2	48.7	54.2	54.6	56.5	57.5	58.3	59.1	59.3	59.3	59.6	59.8	59.8	60.1
GE 8000		34.3	39.1	54.5	60.5	60.9	62.8	63.8	64.7	65.4	65.7	65.7	65.9	66.1	66.1	66.4
GE 7000		35.2	39.9	56.5	62.6	63.1	64.9	65.9	66.8	67.5	67.8	67.8	68.1	68.2	68.2	68.5
GE 6000		36.5	41.2	57.8	63.9	64.5	66.4	67.4	68.2	69.0	69.3	69.3	69.5	69.7	69.7	70.0
GE 5000		40.1	45.0	62.1	68.2	68.8	70.8	71.8	72.7	73.4	73.7	73.7	74.0	74.1	74.1	74.4
GE 4500		42.4	47.3	65.1	71.4	72.0	74.0	75.0	75.9	76.9	77.2	77.2	77.4	77.6	77.6	77.9
GE 4000		44.0	48.9	67.8	75.3	75.9	78.0	79.0	79.9	80.9	81.2	81.2	81.5	81.6	81.6	81.9
GE 3500		45.5	51.0	70.8	78.4	79.0	81.2	82.2	83.0	84.1	84.3	84.3	84.6	84.8	84.8	85.1
GE 3000		45.8	51.4	71.8	79.6	80.2	83.5	84.5	85.3	86.5	86.8	86.8	87.1	87.2	87.2	87.5
GE 2500		46.6	52.2	73.3	81.3	82.2	85.8	86.8	87.6	88.8	89.1	89.1	89.4	89.5	89.5	89.8
GE 2000		46.8	52.4	73.6	81.8	82.6	86.8	87.8	88.8	89.9	90.2	90.2	90.5	90.7	90.7	90.9
GE 1800		46.8	52.4	73.7	81.9	82.9	87.4	88.4	89.7	90.8	91.1	91.1	91.4	91.5	91.5	91.8
GE 1500		47.3	52.9	74.1	82.6	83.6	88.4	89.5	90.9	92.2	92.5	92.5	92.8	93.0	93.0	93.2
GE 1200		47.3	53.0	74.7	83.3	84.3	89.2	90.4	91.8	93.1	93.4	93.4	93.7	93.8	93.8	94.1
GE 1000		47.3	53.0	74.9	83.8	84.9	90.1	91.4	92.8	94.1	94.5	94.5	94.8	95.0	95.0	95.3
GE 900		47.3	53.0	74.9	84.1	85.2	90.5	92.0	93.4	94.7	95.1	95.1	95.4	95.5	95.5	95.8
GE 800		47.3	53.0	74.9	84.2	85.3	90.8	92.2	93.7	95.0	95.4	95.4	95.7	96.0	96.0	96.3
GE 700		47.3	53.0	74.9	84.2	85.3	90.8	92.2	93.7	95.0	95.4	95.4	95.7	96.0	96.0	96.3
GE 600		47.3	53.0	74.9	84.2	85.3	91.2	92.7	94.1	95.4	95.8	95.8	96.1	96.4	96.4	96.7
GE 500		47.3	53.0	74.9	84.2	85.3	91.2	92.7	94.1	95.5	96.1	96.1	96.4	96.7	96.7	97.3
GE 400		47.3	53.0	74.9	84.3	85.5	91.4	92.8	94.3	96.0	96.6	96.6	96.8	97.1	97.1	97.7
GE 300		47.3	53.0	74.9	84.3	85.5	91.4	93.1	94.5	96.3	97.0	97.0	97.4	97.7	97.7	98.4
GE 200		47.3	53.0	74.9	84.3	85.5	91.4	93.1	94.5	96.3	97.0	97.0	97.4	97.8	97.8	98.6
GE 100		47.3	53.0	74.9	84.3	85.5	91.4	93.1	94.5	96.3	97.0	97.0	97.4	98.1	98.4	99.9
GE 0		47.3	53.0	74.9	84.3	85.5	91.4	93.1	94.5	96.3	97.0	97.0	97.4	98.1	98.4	100.0

TOTAL NUMBER OF OBSERVATIONS: 696

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 76-85
MONTH: AUG HOURS(LST): 0900-1100

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		33.2	35.5	42.3	42.6	42.6	42.9	42.9	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
GE 20000		37.6	40.3	47.9	48.3	48.4	48.7	48.7	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
GE 18000		38.1	40.8	48.9	49.3	49.4	49.7	49.7	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9
GE 16000		38.2	40.9	49.0	49.4	49.6	49.9	49.9	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
GE 14000		38.6	41.3	49.6	50.0	50.1	50.4	50.4	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
GE 12000		40.3	43.0	52.0	52.4	52.6	52.8	52.8	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
GE 10000		43.2	45.9	56.4	56.8	57.0	57.4	57.4	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
GE 9000		44.3	47.3	58.0	58.5	58.7	59.1	59.1	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2
GE 8000		47.6	50.7	62.2	63.1	63.2	63.8	63.9	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
GE 7000		49.1	52.3	64.1	65.1	65.2	65.9	66.1	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
GE 6000		49.9	53.0	64.8	65.8	65.9	66.6	66.8	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
GE 5000		53.7	56.8	68.9	69.9	70.0	70.7	70.9	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
GE 4500		57.2	60.4	72.6	73.6	73.7	74.6	74.7	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
GE 4000		62.2	65.8	79.1	80.5	80.7	81.8	82.0	82.1	82.2	82.2	82.2	82.2	82.2	82.2	82.2
GE 3500		65.5	69.2	82.7	84.2	84.4	85.5	85.7	85.8	85.9	85.9	85.9	85.9	85.9	85.9	85.9
GE 3000		68.6	72.7	86.4	88.4	88.5	89.6	89.8	89.9	90.1	90.1	90.1	90.1	90.1	90.1	90.1
GE 2500		69.9	74.1	87.9	90.1	90.2	91.3	91.5	91.6	91.8	91.8	91.8	91.8	91.8	91.8	91.8
GE 2000		70.7	75.0	89.2	91.5	91.6	92.9	93.0	93.2	93.3	93.5	93.5	93.5	93.5	93.5	93.5
GE 1800		70.7	75.0	89.5	92.2	92.3	93.6	93.8	93.9	94.0	94.2	94.2	94.2	94.2	94.2	94.2
GE 1500		71.2	75.6	90.5	93.3	93.5	94.9	95.0	95.2	95.3	95.6	95.7	95.7	95.7	95.7	95.7
GE 1200		71.3	75.7	91.2	94.5	94.6	96.2	96.3	96.4	96.7	97.0	97.2	97.2	97.2	97.2	97.2
GE 1000		71.3	75.7	91.3	94.6	94.7	96.6	97.0	97.2	97.6	97.9	98.0	98.0	98.0	98.0	98.0
GE 900		71.3	75.7	91.3	94.6	94.9	96.7	97.2	97.3	97.7	98.0	98.2	98.2	98.2	98.2	98.2
GE 800		71.3	75.7	91.3	94.6	94.9	96.9	97.6	97.7	98.2	98.4	98.6	98.6	98.6	98.6	98.6
GE 700		71.3	75.7	91.3	94.6	94.9	96.9	97.6	97.7	98.4	98.7	98.9	98.9	98.9	98.9	98.9
GE 600		71.3	75.7	91.3	94.6	95.0	97.2	97.9	98.0	98.7	99.0	99.1	99.1	99.1	99.1	99.1
GE 500		71.3	75.7	91.3	94.6	95.0	97.2	98.0	98.2	98.9	99.1	99.3	99.3	99.3	99.3	99.3
GE 400		71.3	75.7	91.3	94.6	95.0	97.3	98.2	98.3	99.3	99.6	99.7	99.7	99.7	99.7	99.7
GE 300		71.3	75.7	91.3	94.6	95.0	97.3	98.2	98.3	99.3	99.6	99.7	99.7	99.7	99.7	99.7
GE 200		71.3	75.7	91.3	94.6	95.0	97.3	98.2	98.3	99.3	99.6	99.7	99.9	99.9	99.9	99.9
GE 100		71.3	75.7	91.3	94.6	95.0	97.3	98.2	98.3	99.3	99.6	99.7	99.9	99.9	100.0	100.0
GE 0		71.3	75.7	91.3	94.6	95.0	97.3	98.2	98.3	99.3	99.6	99.7	99.9	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 704

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 76-85
MONTH: AUG HOURS(LST): 1200-1400

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		37.1	37.8	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
GE 20000		45.7	46.4	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
GE 18000		46.4	47.1	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4
GE 16000		46.9	47.5	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8
GE 14000		47.2	47.9	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
GE 12000		49.6	50.4	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3
GE 10000		53.0	53.7	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
GE 9000		54.6	55.3	59.0	59.1	59.1	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3
GE 8000		59.5	60.4	64.2	64.4	64.4	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
GE 7000		61.1	62.0	65.9	66.1	66.1	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
GE 6000		62.0	62.8	66.8	66.9	66.9	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
GE 5000		66.6	67.5	71.4	71.6	71.6	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
GE 4500		69.7	70.6	74.5	74.8	74.8	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
GE 4000		76.1	76.9	80.9	81.2	81.3	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
GE 3500		81.9	82.7	87.4	87.8	88.0	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
GE 3000		87.0	87.8	93.4	94.2	94.3	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
GE 2500		88.0	88.8	94.8	95.6	95.8	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
GE 2000		89.1	90.1	96.5	97.3	97.5	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
GE 1800		89.1	90.2	97.2	98.0	98.2	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE 1500		89.4	90.5	97.9	99.2	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 1200		89.4	90.5	97.9	99.2	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 1000		89.4	90.5	97.9	99.2	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 900		89.4	90.5	97.9	99.2	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 800		89.4	90.5	97.9	99.2	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 700		89.4	90.5	97.9	99.2	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 600		89.4	90.5	97.9	99.2	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 500		89.4	90.5	97.9	99.2	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400		89.4	90.5	97.9	99.2	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300		89.4	90.5	97.9	99.2	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200		89.4	90.5	97.9	99.2	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100		89.4	90.5	97.9	99.2	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 0		89.4	90.5	97.9	99.2	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 707

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HAHAU AAF GERMANY

PERIOD OF RECORD: 76-85
MONTH: AUG HOURS(LST): 1800-1700

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS														
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		39.4	39.7	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4
GE 20000		46.1	46.4	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1
GE 18000		46.6	46.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
GE 16000		46.7	47.0	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
GE 14000		47.3	47.6	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4
GE 12000		48.3	48.6	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
GE 10000		52.4	52.7	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2
GE 9000		54.5	54.7	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
GE 8000		62.5	62.8	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
GE 7000		66.5	66.8	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
GE 6000		66.7	67.0	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5
GE 5000		71.1	71.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
GE 4500		75.0	75.3	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
GE 4000		81.8	82.2	86.2	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
GE 3500		88.1	88.8	92.8	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
GE 3000		91.1	92.0	96.8	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
GE 2500		91.4	92.4	97.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
GE 2000		92.4	93.4	98.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
GE 1800		92.5	93.8	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 1500		92.5	93.8	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 1200		92.5	94.1	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 1000		92.5	94.1	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 900		92.5	94.1	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 800		92.5	94.1	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 700		92.5	94.1	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 600		92.5	94.1	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 500		92.5	94.1	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400		92.5	94.1	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300		92.5	94.1	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200		92.5	94.1	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100		92.5	94.1	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 0		92.5	94.1	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 696

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HAHAU AAF GERMANY PERIOD OF RECORD: 76-85
MONTH: AUG HOURS(LST): 1800-2000

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 6	GE 4	GE 0
NO CEIL		47.1	48.0	50.6	50.6	50.8	50.9	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1
GE 20000		54.9	56.1	59.0	59.0	59.2	59.4	59.5	59.5	59.6	59.5	59.5	59.5	59.5	59.5	59.5
GE 18000		55.8	57.1	60.0	60.0	60.1	60.3	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4
GE 16000		55.8	57.1	60.0	60.0	60.1	60.3	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4
GE 14000		56.0	57.2	60.1	60.1	60.3	60.4	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
GE 12000		56.1	57.4	60.6	60.6	60.7	60.9	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
GE 10000		59.0	60.3	63.7	63.8	64.0	64.1	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
GE 9000		60.0	61.2	64.9	65.0	65.2	65.3	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5
GE 8000		66.4	67.0	72.1	72.2	72.4	72.5	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
GE 7000		70.1	71.5	76.1	76.2	76.4	76.5	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
GE 6000		70.7	72.1	76.7	76.8	77.0	77.1	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
GE 5000		74.1	75.5	80.2	80.4	80.5	80.7	80.8	80.8	80.8	80.8	81.0	81.0	81.0	81.0	81.0
GE 4500		78.5	79.9	85.1	85.4	85.6	85.7	85.9	85.9	85.9	85.9	86.0	86.0	86.0	86.0	86.0
GE 4000		84.2	85.6	91.0	91.7	91.9	92.0	92.2	92.2	92.2	92.2	92.3	92.3	92.3	92.3	92.3
GE 3500		87.0	88.3	93.7	94.6	94.8	94.9	95.1	95.1	95.1	95.1	95.2	95.2	95.2	95.2	95.2
GE 3000		88.7	90.0	96.3	97.4	97.5	97.7	97.9	97.9	97.9	97.9	98.0	98.0	98.0	98.0	98.0
GE 2500		89.3	90.6	96.9	98.2	98.3	98.6	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	98.9
GE 2000		89.7	91.1	97.4	98.6	98.8	99.1	99.2	99.2	99.2	99.2	99.4	99.4	99.4	99.4	99.4
GE 1800		89.7	91.1	97.5	98.8	98.9	99.2	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5
GE 1500		90.0	91.4	97.9	99.1	99.2	99.5	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8
GE 1200		90.0	91.4	97.9	99.1	99.2	99.5	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8
GE 1000		90.0	91.4	97.9	99.1	99.2	99.5	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8
GE 900		90.0	91.4	97.9	99.1	99.2	99.5	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8
GE 800		90.0	91.4	97.9	99.1	99.2	99.5	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8
GE 700		90.0	91.6	98.0	99.2	99.4	99.7	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0
GE 600		90.0	91.6	98.0	99.2	99.4	99.7	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0
GE 500		90.0	91.6	98.0	99.2	99.4	99.7	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0
GE 400		90.0	91.6	98.0	99.2	99.4	99.7	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0
GE 300		90.0	91.6	98.0	99.2	99.4	99.7	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0
GE 200		90.0	91.6	98.0	99.2	99.4	99.7	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0
GE 100		90.0	91.6	98.0	99.2	99.4	99.7	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0
GE 0		90.0	91.6	98.0	99.2	99.4	99.7	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 652

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106425 STATION NAME: HAHN AAF GERMANY

PERIOD OF RECORD: 76-85
MONTH: AUG HOURS(LST): 2100-2300

CEILINGS IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		47.8	49.9	55.7	57.0	57.3	57.8	57.8	58.3	58.6	58.6	58.6	58.6	58.8	58.8	58.8
GE 20000		53.6	57.0	63.9	65.4	65.7	66.2	66.2	66.8	67.0	67.0	67.0	67.0	67.3	67.3	67.3
GE 18000		54.4	57.8	64.6	66.2	66.5	67.0	67.0	67.5	67.8	67.8	67.8	67.8	68.1	68.1	68.1
GE 16000		54.4	57.8	64.6	66.2	66.5	67.0	67.0	67.5	67.8	67.8	67.8	67.8	68.1	68.1	68.1
GE 14000		54.4	57.8	64.6	66.2	66.5	67.0	67.0	67.5	67.8	67.8	67.8	67.8	68.1	68.1	68.1
GE 12000		54.4	57.8	64.6	66.8	67.0	67.5	67.5	68.1	68.3	68.3	68.3	68.3	68.6	68.6	68.6
GE 10000		57.0	60.7	68.3	70.4	70.7	71.2	71.2	71.8	72.0	72.0	72.0	72.0	72.3	72.3	72.3
GE 9000		57.8	61.5	69.1	71.5	72.0	72.6	72.6	73.1	73.4	73.4	73.4	73.4	73.6	73.6	73.6
GE 8000		64.1	68.3	76.5	78.9	79.7	80.2	80.2	80.7	81.0	81.0	81.0	81.0	81.3	81.3	81.3
GE 7000		64.9	69.1	78.1	80.5	81.3	81.8	81.8	82.3	82.6	82.6	82.6	82.6	82.8	82.8	82.8
GE 6000		65.4	69.7	78.6	81.0	81.8	82.3	82.3	82.8	83.1	83.1	83.1	83.1	83.4	83.4	83.4
GE 5000		69.1	73.3	81.5	83.9	84.7	85.2	85.2	85.8	86.0	86.0	86.0	86.0	86.3	86.3	86.3
GE 4500		71.0	75.2	85.2	87.6	88.7	89.2	89.2	89.7	90.0	90.0	90.0	90.0	90.2	90.2	90.2
GE 4000		74.1	78.9	88.9	92.3	93.4	94.2	94.2	94.7	95.0	95.0	95.0	95.0	95.3	95.3	95.3
GE 3500		75.2	79.9	90.0	93.7	94.7	95.5	95.5	96.0	96.3	96.3	96.3	96.3	96.6	96.6	96.6
GE 3000		75.7	80.7	91.3	95.3	96.3	97.1	97.1	97.6	97.9	97.9	97.9	97.9	98.2	98.2	98.2
GE 2500		75.3	81.3	91.8	95.8	96.8	97.6	97.6	98.2	98.4	98.4	98.4	98.4	98.7	98.7	98.7
GE 2000		77.0	82.1	92.6	96.6	97.6	98.4	98.4	98.9	99.2	99.2	99.2	99.2	99.5	99.5	99.5
GE 1800		77.0	82.1	92.6	96.6	97.6	98.4	98.4	98.9	99.2	99.2	99.2	99.2	99.5	99.5	99.5
GE 1500		77.0	82.1	92.9	96.8	97.9	98.7	98.7	99.2	99.5	99.5	99.5	99.5	99.7	99.7	99.7
GE 1200		77.0	82.1	92.9	96.8	97.9	98.7	98.7	99.2	99.5	99.5	99.5	99.5	99.7	99.7	99.7
GE 1000		77.0	82.1	92.9	96.8	97.9	98.7	98.7	99.2	99.5	99.5	99.5	99.5	99.7	99.7	99.7
GE 900		77.0	82.1	92.9	96.8	97.9	98.7	98.7	99.2	99.5	99.5	99.5	99.5	99.7	99.7	99.7
GE 800		77.0	82.1	92.9	97.1	98.2	98.9	98.9	99.5	99.7	99.7	99.7	99.7	100.0	100.0	100.0
GE 700		77.0	82.1	92.9	97.1	98.2	98.9	98.9	99.5	99.7	99.7	99.7	99.7	100.0	100.0	100.0
GE 600		77.0	82.1	92.9	97.1	98.2	98.9	98.9	99.5	99.7	99.7	99.7	99.7	100.0	100.0	100.0
GE 500		77.0	82.1	92.9	97.1	98.2	98.9	98.9	99.5	99.7	99.7	99.7	99.7	100.0	100.0	100.0
GE 400		77.0	82.1	92.9	97.1	98.2	98.9	98.9	99.5	99.7	99.7	99.7	99.7	100.0	100.0	100.0
GE 300		77.0	82.1	92.9	97.1	98.2	98.9	98.9	99.5	99.7	99.7	99.7	99.7	100.0	100.0	100.0
GE 200		77.0	82.1	92.9	97.1	98.2	98.9	98.9	99.5	99.7	99.7	99.7	99.7	100.0	100.0	100.0
GE 100		77.0	82.1	92.9	97.1	98.2	98.9	98.9	99.5	99.7	99.7	99.7	99.7	100.0	100.0	100.0
GE 0		77.0	82.1	92.9	97.1	98.2	98.9	98.9	99.5	99.7	99.7	99.7	99.7	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 379

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 76-85
MONTH: AUG HOURS(LST): ALL

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GE 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		37.0	38.4	43.1	44.1	44.2	44.5	44.7	44.9	45.0	45.0	45.0	45.1	45.1	45.1	45.2
GE 20000		43.1	44.8	50.1	51.1	51.3	51.6	51.8	52.1	52.1	52.2	52.2	52.2	52.3	52.3	52.3
GE 18000		43.6	45.4	50.9	52.0	52.1	52.5	52.6	52.9	52.9	53.0	53.0	53.0	53.1	53.1	53.1
GE 16000		43.8	45.5	51.0	52.1	52.3	52.6	52.8	53.0	53.1	53.1	53.1	53.2	53.2	53.2	53.3
GE 14000		44.1	45.9	51.5	52.6	52.8	53.1	53.3	53.5	53.6	53.7	53.7	53.7	53.8	53.8	53.8
GE 12000		45.2	47.0	53.0	54.2	54.4	54.8	55.0	55.2	55.3	55.3	55.3	55.3	55.4	55.4	55.5
GE 10000		49.3	50.2	56.9	58.2	58.4	58.9	59.1	59.3	59.5	59.5	59.5	59.5	59.6	59.6	59.7
GE 9000		49.7	51.7	58.6	60.0	60.2	60.7	60.9	61.1	61.3	61.3	61.3	61.4	61.5	61.5	61.5
GE 8000		54.9	57.2	64.8	66.4	66.6	67.1	67.4	67.6	67.8	67.8	67.8	67.9	67.9	67.9	68.0
GE 7000		57.1	59.4	67.4	69.0	69.2	69.8	70.0	70.3	70.4	70.5	70.5	70.5	70.6	70.6	70.6
GE 6000		57.8	60.1	68.1	69.7	70.0	70.5	70.8	71.0	71.2	71.2	71.2	71.3	71.3	71.3	71.4
GE 5000		61.7	64.0	72.3	73.9	74.1	74.7	75.0	75.2	75.4	75.4	75.4	75.5	75.5	75.5	75.6
GE 4500		65.0	67.4	76.0	77.7	78.0	78.6	78.8	79.1	79.3	79.3	79.3	79.4	79.4	79.4	79.5
GE 4000		69.9	72.4	81.7	83.8	84.1	84.9	85.1	85.4	85.6	85.7	85.7	85.7	85.8	85.8	85.8
GE 3500		73.6	76.3	85.8	88.1	88.4	89.2	89.4	89.7	89.9	90.0	90.0	90.0	90.1	90.1	90.1
GE 3000		76.1	78.9	89.1	91.7	91.9	92.9	93.2	93.4	93.7	93.7	93.7	93.8	93.8	93.8	93.9
GE 2500		76.8	79.7	90.2	92.9	93.2	94.3	94.5	94.7	95.0	95.0	95.1	95.1	95.2	95.2	95.2
GE 2000		77.6	80.5	91.1	93.8	94.2	95.4	95.6	95.9	96.2	96.2	96.3	96.3	96.4	96.4	96.4
GE 1800		77.6	80.6	91.5	94.3	94.6	95.9	96.1	96.5	96.7	96.8	96.8	96.9	96.9	96.9	97.0
GE 1500		77.9	80.9	92.0	94.9	95.3	96.6	96.9	97.3	97.5	97.7	97.7	97.8	97.8	97.8	97.9
GE 1200		77.9	81.0	92.3	95.3	95.7	97.1	97.4	97.7	98.0	98.1	98.2	98.3	98.3	98.3	98.4
GE 1000		77.9	81.0	92.3	95.4	95.8	97.3	97.7	98.0	98.4	98.5	98.6	98.6	98.7	98.7	98.7
GE 900		77.9	81.0	92.3	95.5	95.9	97.4	97.8	98.2	98.5	98.6	98.7	98.7	98.8	98.8	98.9
GE 800		77.9	81.0	92.3	95.5	96.0	97.5	98.0	98.3	98.7	98.8	98.9	98.9	99.0	99.0	99.0
GE 700		77.9	81.0	92.3	95.6	96.0	97.6	98.0	98.4	98.7	98.9	98.9	99.0	99.1	99.1	99.1
GE 600		77.9	81.0	92.3	95.6	96.0	97.7	98.1	98.5	98.9	99.0	99.1	99.1	99.2	99.2	99.2
GE 500		77.9	81.0	92.3	95.6	96.0	97.7	98.1	98.5	98.9	99.1	99.1	99.2	99.3	99.3	99.4
GE 400		77.9	81.0	92.3	95.6	96.0	97.8	98.2	98.6	99.1	99.2	99.3	99.3	99.4	99.4	99.5
GE 300		77.9	81.0	92.3	95.6	96.0	97.8	98.3	98.6	99.1	99.3	99.4	99.5	99.5	99.5	99.7
GE 200		77.9	81.0	92.3	95.6	96.0	97.8	98.3	98.6	99.1	99.3	99.4	99.5	99.6	99.6	99.7
GE 100		77.9	81.0	92.3	95.6	96.0	97.8	98.3	98.6	99.1	99.3	99.4	99.5	99.6	99.7	100.0
GE 0		77.9	81.0	92.3	95.6	96.0	97.8	98.3	98.6	99.1	99.3	99.4	99.5	99.6	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS: 3834

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 76-85
MONTH: SEP HOURS(LST): 0600-0800

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		15.3	16.8	24.8	28.6	28.8	30.9	32.3	32.5	35.0	35.9	36.8	36.9	38.1	38.3	38.7
GE 20000		15.3	18.1	26.7	30.7	30.9	33.5	35.3	35.5	38.4	39.3	40.4	40.5	42.0	42.1	42.6
GE 18000		16.5	18.4	27.0	31.2	31.3	34.0	35.9	36.1	39.0	39.9	40.9	41.1	42.6	42.7	43.3
GE 16000		16.5	18.4	27.0	31.2	31.3	34.0	35.9	36.1	39.5	40.4	41.4	41.5	43.0	43.2	43.8
GE 14000		16.5	18.5	27.3	31.6	31.8	34.4	36.4	36.5	39.9	40.8	41.8	42.0	43.5	43.6	44.2
GE 12000		16.5	18.5	27.6	32.0	32.2	35.3	37.4	37.5	40.9	41.8	42.9	43.0	44.8	45.0	45.5
GE 10000		17.8	20.2	29.4	34.0	34.1	37.2	39.3	39.5	43.0	43.9	45.0	45.1	46.9	47.0	47.9
GE 9000		18.8	21.2	31.5	36.4	36.5	39.8	41.8	42.0	45.5	46.4	47.5	47.6	49.4	49.6	50.4
GE 8000		21.7	24.2	36.5	41.7	41.8	45.4	47.6	47.8	51.6	52.5	53.6	53.7	55.5	55.6	56.5
GE 7000		22.7	25.5	39.2	44.5	44.7	48.8	51.2	51.3	55.3	56.2	57.3	57.4	59.2	59.3	60.2
GE 6000		23.4	26.3	40.1	45.4	45.5	49.7	52.1	52.2	56.2	57.1	58.2	58.3	60.1	60.2	61.1
GE 5000		24.8	27.7	42.1	47.9	48.1	52.7	55.6	55.8	59.9	60.8	61.9	62.2	63.9	64.1	65.0
GE 4500		27.3	30.7	45.8	51.8	51.9	56.5	59.6	59.9	64.1	65.0	66.0	66.3	68.1	68.2	69.1
GE 4000		31.6	35.3	52.1	58.6	59.8	64.5	68.4	68.7	72.8	73.9	74.9	75.2	77.0	77.2	78.0
GE 3500		32.5	36.2	53.6	60.8	62.0	66.8	70.8	71.1	75.2	76.3	77.3	77.6	79.4	79.5	80.4
GE 3000		35.3	39.3	57.0	64.7	66.0	70.9	75.2	75.5	79.8	80.9	81.9	82.3	84.3	84.4	85.3
GE 2500		36.4	40.4	58.3	66.2	67.5	72.6	77.2	77.4	81.9	82.9	84.0	84.4	86.4	86.5	87.4
GE 2000		38.9	43.2	61.7	69.7	71.2	76.4	81.0	81.3	85.8	86.8	87.8	88.3	90.2	90.4	91.2
GE 1800		38.9	43.2	61.7	69.7	71.2	76.4	81.0	81.5	86.2	87.2	88.3	88.7	90.7	90.8	91.7
GE 1500		39.0	43.5	62.5	70.5	72.1	77.3	81.9	82.3	87.5	88.6	89.6	90.1	92.0	92.1	93.0
GE 1200		39.0	43.5	62.5	70.5	72.1	77.3	81.9	82.3	87.5	88.6	89.6	90.1	92.0	92.1	93.0
GE 1000		39.0	43.5	62.6	70.6	72.3	77.4	82.0	82.5	87.7	88.7	89.8	90.2	92.3	92.4	93.3
GE 900		39.0	43.6	62.8	71.1	72.7	77.9	82.5	82.9	88.7	89.8	90.8	91.2	93.3	93.5	94.4
GE 800		39.0	43.6	62.8	71.1	72.7	78.0	82.6	83.1	89.0	90.2	91.2	91.7	93.8	93.9	94.8
GE 700		39.0	43.6	62.8	71.1	72.8	78.2	82.8	83.2	89.2	90.4	91.4	91.8	93.9	94.1	95.0
GE 600		39.0	43.6	62.8	71.1	72.8	78.2	82.8	83.2	89.3	90.5	91.5	92.0	94.2	94.4	95.3
GE 500		39.0	43.6	62.8	71.1	72.8	78.2	82.9	83.5	89.8	91.2	92.3	92.7	95.3	95.5	96.4
GE 400		39.0	43.6	62.8	71.1	72.8	78.2	82.9	83.5	89.8	91.2	92.3	92.7	95.3	95.5	96.6
GE 300		39.0	43.6	62.8	71.1	72.8	78.2	83.2	83.8	90.2	91.8	92.9	93.3	96.0	96.6	97.6
GE 200		39.2	43.8	62.9	71.2	73.0	78.3	83.4	84.0	90.5	92.1	93.2	93.8	96.4	97.0	98.7
GE 100		39.2	43.8	62.9	71.2	73.0	78.3	83.5	84.1	90.7	92.3	93.3	94.1	96.7	97.5	99.4
GE 0		39.2	43.8	62.9	71.2	73.0	78.3	83.5	84.1	90.7	92.3	93.3	94.1	96.7	97.6	100.0

TOTAL NUMBER OF OBSERVATIONS: 674

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105420 STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 76-85
MONTH: SEP HOURS(LST): 0900-1100

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	22.4	25.5	32.3	34.1	34.2	37.3	37.8	38.1	38.3	38.4	38.4	38.4	38.4	38.7	38.7	
GE 20000	26.9	30.4	38.0	40.3	40.5	43.7	44.3	44.5	44.7	44.8	44.8	44.8	44.8	45.1	45.1	
GE 18000	27.4	30.9	38.7	41.0	41.2	44.4	45.0	45.3	45.4	45.6	45.6	45.6	45.6	45.9	45.9	
GE 16000	27.4	30.9	38.7	41.0	41.2	44.4	45.0	45.3	45.4	45.6	45.6	45.6	45.6	45.9	45.9	
GE 14000	27.5	31.0	39.2	41.5	41.6	44.8	45.4	45.7	45.9	46.0	46.0	46.0	46.0	46.3	46.3	
GE 12000	27.9	31.4	39.7	42.4	42.5	45.7	46.3	46.6	46.7	46.9	46.9	46.9	46.9	47.2	47.2	
GE 10000	29.2	33.2	42.1	45.0	45.1	48.3	49.2	49.5	49.6	49.9	49.9	49.9	50.1	50.4	50.5	
GE 9000	31.6	35.4	44.8	47.7	47.9	51.1	52.0	52.3	52.4	52.7	52.7	52.7	52.8	53.1	53.3	
GE 8000	34.8	39.9	50.9	54.9	55.0	58.2	59.1	59.4	59.5	59.8	59.8	59.8	60.1	60.4	60.6	
GE 7000	36.5	42.1	54.0	58.2	58.4	61.9	62.7	63.0	63.2	63.5	63.5	63.5	63.8	64.0	64.2	
GE 6000	35.7	42.2	54.3	58.7	58.8	62.4	63.3	63.6	63.8	64.0	64.0	64.0	64.3	64.6	64.8	
GE 5000	39.4	45.4	58.1	63.0	63.2	67.1	68.0	68.3	68.4	68.7	68.7	68.7	69.0	69.3	69.4	
GE 4500	41.2	47.3	61.0	66.2	66.5	70.5	71.3	71.6	71.8	72.1	72.1	72.1	72.3	72.6	72.8	
GE 4000	44.3	50.7	65.6	71.5	71.9	76.1	77.3	77.6	77.7	78.0	78.0	78.0	78.3	78.6	78.7	
GE 3500	46.7	53.1	69.0	75.5	75.8	80.2	81.4	81.7	81.8	82.1	82.1	82.1	82.4	82.7	82.8	
GE 3000	51.1	57.6	74.2	81.2	81.5	86.6	87.8	88.1	88.5	89.1	89.1	89.1	89.4	89.7	89.8	
GE 2500	51.8	58.5	75.3	82.2	82.5	88.1	89.4	89.7	90.1	90.7	90.7	90.7	91.0	91.3	91.4	
GE 2000	52.5	59.7	76.6	83.7	84.0	89.8	91.1	91.6	92.1	92.7	92.7	92.7	93.0	93.3	93.4	
GE 1800	52.7	59.8	76.7	83.8	84.1	90.0	91.3	91.8	92.4	93.0	93.0	93.0	93.3	93.6	93.7	
GE 1500	53.3	60.6	77.6	84.7	85.0	90.8	92.1	92.7	93.3	93.9	93.9	93.9	94.2	94.5	94.6	
GE 1200	53.6	60.8	78.3	85.4	85.7	91.7	93.0	93.6	94.2	94.8	94.8	94.8	95.1	95.3	95.5	
GE 1000	53.6	60.8	78.9	86.2	86.5	92.6	94.0	94.6	95.2	95.9	95.9	95.9	96.2	96.5	96.7	
GE 900	53.6	60.8	78.9	86.2	86.5	92.7	94.3	94.9	95.5	96.2	96.2	96.2	96.5	96.8	96.9	
GE 800	53.6	60.8	78.9	86.3	86.6	93.2	94.8	95.3	95.9	96.7	96.8	96.9	97.2	97.5	97.7	
GE 700	53.6	60.8	78.9	86.3	86.6	93.3	94.9	95.5	96.2	96.9	97.1	97.2	97.5	97.8	98.0	
GE 600	53.6	60.8	78.9	86.3	86.6	93.6	95.2	95.8	96.5	97.2	97.4	97.5	97.8	98.1	98.3	
GE 500	53.6	60.8	78.9	86.3	86.6	93.7	95.3	95.9	96.7	97.4	97.5	97.7	98.3	98.5	98.7	
GE 400	53.6	60.8	78.9	86.3	86.6	93.7	95.3	95.9	96.8	97.5	97.7	97.8	98.7	99.0	99.1	
GE 300	53.6	60.8	78.9	86.3	86.6	93.7	95.3	95.9	96.8	97.5	97.7	97.8	98.7	99.0	99.1	
GE 200	53.6	60.8	78.9	86.3	86.6	93.7	95.3	95.9	96.8	97.7	97.8	98.1	99.3	99.6	99.7	
GE 100	53.6	60.8	78.9	86.3	86.6	93.7	95.3	95.9	96.8	97.7	97.8	98.1	99.4	99.9	100.0	
GE 0	53.6	60.8	78.9	86.3	86.6	93.7	95.3	95.9	96.8	97.7	97.8	98.1	99.4	99.9	100.0	

TOTAL NUMBER OF OBSERVATIONS: 687

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 76-85
MONTH: SEP HOURS(LST): 1200-1400

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		31.0	31.5	36.6	37.8	37.8	38.1	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3
GE 20000		36.4	37.3	43.2	44.6	44.6	44.9	45.2	45.3	45.5	45.5	45.5	45.5	45.5	45.5	45.5
GE 18000		36.4	37.3	43.2	44.6	44.6	44.9	45.2	45.3	45.5	45.5	45.5	45.5	45.5	45.5	45.5
GE 16000		36.6	37.5	43.4	44.7	44.7	45.0	45.3	45.5	45.6	45.6	45.6	45.6	45.6	45.6	45.6
GE 14000		36.6	37.5	43.5	45.0	45.0	45.3	45.6	45.8	45.9	45.9	45.9	45.9	45.9	45.9	45.9
GE 12000		38.4	39.3	45.6	47.1	47.1	47.4	47.7	47.9	48.0	48.0	48.0	48.0	48.0	48.0	48.0
GE 10000		40.2	41.3	47.9	49.4	49.4	49.7	50.0	50.2	50.3	50.3	50.3	50.3	50.3	50.3	50.3
GE 9000		43.4	44.6	51.5	53.0	53.0	53.3	53.6	53.8	53.9	53.9	53.9	53.9	53.9	53.9	53.9
GE 8000		50.0	51.4	58.9	60.4	60.4	60.7	61.0	61.1	61.3	61.3	61.3	61.3	61.3	61.3	61.3
GE 7000		52.4	54.4	62.5	64.3	64.3	64.9	65.2	65.4	65.5	65.5	65.5	65.5	65.5	65.5	65.5
GE 6000		53.2	55.1	63.3	65.1	65.1	65.8	66.1	66.3	66.4	66.4	66.4	66.4	66.4	66.4	66.4
GE 5000		56.2	58.1	66.6	68.4	68.4	69.1	69.4	69.6	69.7	69.7	69.7	69.7	69.7	69.7	69.7
GE 4500		58.4	61.0	69.7	71.5	71.5	72.3	72.6	72.7	72.9	72.9	72.9	72.9	72.9	72.9	72.9
GE 4000		62.3	65.7	75.2	77.3	77.3	78.0	78.3	78.5	78.6	78.6	78.6	78.6	78.6	78.6	78.6
GE 3500		67.5	70.9	80.9	83.4	83.4	84.2	84.5	84.6	84.8	84.8	84.8	84.8	84.8	84.8	84.8
GE 3000		73.0	77.1	88.6	91.3	91.3	92.2	92.6	92.8	92.9	92.9	92.9	92.9	92.9	92.9	92.9
GE 2500		74.1	78.3	89.8	93.1	93.1	94.0	94.4	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7
GE 2000		75.6	79.8	91.4	95.2	95.2	96.4	96.8	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1
GE 1800		75.6	79.8	91.7	95.6	95.6	96.8	97.3	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6
GE 1500		75.6	80.1	92.0	96.1	96.1	97.4	97.9	98.0	98.2	98.2	98.2	98.3	98.3	98.3	98.3
GE 1200		75.8	80.3	92.3	96.4	96.4	97.9	98.3	98.5	98.8	98.8	98.8	98.9	98.9	98.9	98.9
GE 1000		75.8	80.3	92.5	96.5	96.5	98.0	98.5	98.6	98.9	98.9	98.9	99.1	99.1	99.1	99.1
GE 900		75.8	80.3	92.5	96.5	96.5	98.0	98.5	98.6	98.9	98.9	98.9	99.1	99.1	99.1	99.1
GE 800		75.8	80.3	92.5	96.5	96.5	98.3	98.8	98.9	99.2	99.2	99.2	99.4	99.4	99.4	99.4
GE 700		75.6	80.3	92.5	96.5	96.5	98.3	98.8	98.9	99.2	99.2	99.2	99.4	99.4	99.4	99.4
GE 600		75.8	80.3	92.5	96.5	96.5	98.5	98.9	99.1	99.5	99.5	99.5	99.7	99.7	99.7	99.7
GE 500		75.8	80.3	92.5	96.5	96.7	98.8	99.2	99.4	99.8	99.8	99.8	100.0	100.0	100.0	100.0
GE 400		75.8	80.3	92.5	96.5	96.7	98.8	99.2	99.4	99.8	99.8	99.8	100.0	100.0	100.0	100.0
GE 300		75.8	80.3	92.5	96.5	96.7	98.8	99.2	99.4	99.8	99.8	99.8	100.0	100.0	100.0	100.0
GE 200		75.8	80.3	92.5	96.5	96.7	98.8	99.2	99.4	99.8	99.8	99.8	100.0	100.0	100.0	100.0
GE 100		75.8	80.3	92.5	96.5	96.7	98.8	99.2	99.4	99.8	99.8	99.8	100.0	100.0	100.0	100.0
GE 0		75.8	80.3	92.5	96.5	96.7	98.8	99.2	99.4	99.8	99.8	99.8	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 664

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 76-85
MONTH: SEP HOURS(LST): 1500-1700

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		34.0	34.4	37.6	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0
GE 20000		40.5	41.1	45.5	45.8	45.8	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
GE 18000		40.8	41.5	45.8	46.1	46.1	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4
GE 16000		40.8	41.5	45.8	46.1	46.1	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4
GE 14000		41.0	41.6	45.9	46.3	46.3	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6
GE 12000		43.4	44.0	48.3	48.6	48.6	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0
GE 10000		45.3	45.9	50.7	51.0	51.0	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
GE 9000		47.4	48.0	52.8	53.1	53.1	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
GE 8000		54.2	54.9	60.4	60.8	60.8	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
GE 7000		56.5	57.6	64.0	64.3	64.3	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
GE 6000		57.1	58.5	65.4	65.7	65.7	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
GE 5000		59.8	61.6	69.1	69.9	69.9	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
GE 4500		62.7	64.6	72.2	73.0	73.0	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
GE 4000		68.7	71.5	80.2	81.3	81.3	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
GE 3500		74.6	77.7	87.4	88.7	88.7	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
GE 3000		78.9	82.1	93.1	94.4	94.4	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
GE 2500		80.4	83.6	94.6	96.5	96.5	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
GE 2000		81.5	84.8	96.2	98.6	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
GE 1800		81.5	84.8	96.2	98.6	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
GE 1500		81.7	85.0	96.3	98.9	98.9	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 1200		81.7	85.0	96.5	99.0	99.0	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 1000		81.7	85.0	96.5	99.0	99.0	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 900		81.7	85.0	96.5	99.2	99.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 800		81.7	85.0	96.5	99.2	99.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 700		81.7	85.0	96.5	99.2	99.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 600		81.7	85.0	96.5	99.2	99.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 500		81.7	85.2	96.7	99.4	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400		81.7	85.2	96.7	99.4	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300		81.7	85.2	96.7	99.4	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200		81.7	85.2	96.7	99.4	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100		81.7	85.2	96.7	99.4	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 0		81.7	85.2	96.7	99.4	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 627

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106425 STATION NAME: HAVAU AAF GERMANY

PERIOD OF RECORD: 76-85
MONTH: SEP HOURS(LST): 1800-2000

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		33.8	35.6	40.7	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2
GE 20000		40.7	42.5	48.8	49.8	49.8	49.9	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
GE 18000		41.0	42.8	49.3	50.2	50.2	50.4	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
GE 16000		41.0	42.8	49.3	50.2	50.2	50.4	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
GE 14000		41.0	42.8	49.3	50.2	50.2	50.4	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
GE 12000		43.2	45.1	51.7	52.9	52.9	53.0	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
GE 10000		46.3	48.3	55.5	56.7	56.7	56.8	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0
GE 9000		47.9	49.9	57.8	59.0	59.0	59.1	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3
GE 8000		52.6	54.9	64.6	65.7	65.9	66.2	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4
GE 7000		54.9	57.7	68.0	69.4	69.5	69.9	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
GE 6000		56.0	58.8	69.2	70.8	71.0	71.3	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5
GE 5000		60.3	63.3	73.8	75.5	75.6	76.4	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
GE 4500		62.8	65.9	77.8	79.4	79.6	80.4	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
GE 4000		67.9	71.2	83.5	85.5	85.7	86.7	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
GE 3500		71.3	74.8	86.1	90.8	90.9	92.1	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
GE 3000		73.0	76.9	90.9	93.7	93.9	95.2	95.7	95.7	95.9	95.9	95.9	95.9	95.9	95.9	95.9
GE 2500		73.1	77.1	91.4	94.4	94.6	96.2	96.9	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0
GE 2000		74.0	77.9	92.6	95.6	95.7	97.4	98.0	98.0	98.4	98.4	98.4	98.4	98.4	98.4	98.4
GE 1800		74.0	77.9	92.6	95.7	95.9	97.5	98.2	98.2	98.5	98.5	98.5	98.5	98.5	98.5	98.5
GE 1500		74.0	77.9	92.9	96.4	96.5	98.2	98.8	98.8	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 1200		74.0	77.9	93.2	96.7	96.9	98.5	99.2	99.2	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 1000		74.0	77.9	93.2	96.7	96.9	98.5	99.2	99.2	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 900		74.0	77.9	93.2	96.7	96.9	98.5	99.2	99.2	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 800		74.0	77.9	93.2	96.9	97.0	98.7	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 700		74.0	77.9	93.2	96.9	97.0	98.7	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 600		74.0	77.9	93.2	96.9	97.0	98.7	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 500		74.0	77.9	93.2	96.9	97.0	98.7	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400		74.0	77.9	93.2	96.9	97.0	98.7	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300		74.0	77.9	93.2	96.9	97.0	98.7	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200		74.0	77.9	93.2	96.9	97.0	98.7	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100		74.0	77.9	93.2	96.9	97.0	98.7	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 0		74.0	77.9	93.2	96.9	97.0	98.7	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 607

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 76-85
MONTH: SEP HOURS(LST): 2100-2300

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		35.0	38.3	45.1	46.4	46.4	46.7	46.7	46.7	46.7	47.0	47.0	47.0	47.3	47.3	47.3
GE 20000		38.5	41.8	49.2	51.5	51.6	51.9	51.9	51.9	51.9	52.2	52.2	52.2	52.5	52.5	52.5
GE 18000		38.5	41.8	49.5	52.2	52.2	52.5	52.5	52.5	52.5	52.7	52.7	52.7	53.0	53.0	53.0
GE 16000		38.5	41.8	49.5	52.2	52.2	52.5	52.5	52.5	52.5	52.7	52.7	52.7	53.0	53.0	53.0
GE 14000		38.5	41.8	49.5	52.2	52.2	52.5	52.5	52.5	52.5	52.7	52.7	52.7	53.0	53.0	53.0
GE 12000		39.9	43.2	50.8	53.5	53.6	53.8	53.8	53.8	53.8	54.1	54.1	54.1	54.4	54.4	54.4
GE 10000		42.1	45.4	54.1	56.8	56.8	57.1	57.1	57.1	57.1	57.4	57.4	57.4	57.7	57.7	57.7
GE 9000		43.4	46.7	56.3	59.0	59.0	59.3	59.3	59.3	59.3	59.6	59.6	59.6	59.8	59.8	59.8
GE 8000		48.6	51.9	64.2	66.9	66.9	67.2	67.2	67.2	67.2	67.5	67.5	67.5	67.8	67.8	67.8
GE 7000		51.6	54.9	68.0	71.0	71.0	71.3	71.3	71.3	71.3	71.6	71.6	71.6	71.9	71.9	71.9
GE 6000		53.8	57.7	70.8	73.8	73.8	74.0	74.0	74.0	74.0	74.3	74.3	74.3	74.6	74.6	74.6
GE 5000		56.8	60.9	74.9	78.1	78.1	78.4	78.4	78.4	78.7	79.0	79.0	79.0	79.2	79.2	79.2
GE 4500		58.7	62.8	77.6	80.9	80.9	81.1	81.1	81.1	81.4	81.7	81.7	81.7	82.0	82.0	82.0
GE 4000		62.6	66.7	82.2	86.1	86.1	86.3	86.3	86.3	86.6	86.9	86.9	86.9	87.2	87.2	87.2
GE 3500		65.8	70.2	86.1	90.2	90.2	90.4	90.4	90.4	90.7	91.0	91.0	91.0	91.3	91.3	91.3
GE 3000		66.9	71.6	88.5	93.4	93.4	93.7	93.7	93.7	94.0	94.3	94.3	94.3	94.5	94.5	94.5
GE 2500		66.9	71.6	89.1	94.5	94.5	94.8	94.8	94.8	95.1	95.4	95.4	95.4	95.6	95.6	95.6
GE 2000		67.8	72.7	91.0	96.4	96.4	96.7	96.7	96.7	97.3	97.5	97.5	98.1	98.4	98.4	98.4
GE 1800		67.8	72.7	91.0	96.4	96.4	96.7	96.7	96.7	97.3	97.5	97.5	98.1	98.4	98.4	98.4
GE 1500		67.8	72.7	91.8	97.3	97.3	97.5	97.5	97.5	98.4	98.6	98.6	99.2	99.5	99.5	99.5
GE 1200		67.8	72.7	91.8	97.3	97.3	97.5	97.5	97.5	98.4	98.6	98.6	99.2	99.5	99.5	99.5
GE 1000		67.8	72.7	91.8	97.5	97.5	97.8	97.8	97.8	98.6	98.9	98.9	99.5	99.7	99.7	99.7
GE 900		67.8	72.7	91.8	97.5	97.5	97.8	97.8	97.8	98.6	98.9	98.9	99.5	99.7	99.7	99.7
GE 800		67.8	72.7	91.8	97.5	97.5	97.8	97.8	97.8	98.6	98.9	98.9	99.5	99.7	99.7	99.7
GE 700		67.8	72.7	91.8	97.8	97.8	98.1	98.1	98.1	98.9	99.2	99.2	99.7	100.0	100.0	100.0
GE 600		67.8	72.7	91.8	97.8	97.8	98.1	98.1	98.1	98.9	99.2	99.2	99.7	100.0	100.0	100.0
GE 500		67.8	72.7	91.8	97.8	97.8	98.1	98.1	98.1	98.9	99.2	99.2	99.7	100.0	100.0	100.0
GE 400		67.8	72.7	91.8	97.8	97.8	98.1	98.1	98.1	98.9	99.2	99.2	99.7	100.0	100.0	100.0
GE 300		67.8	72.7	91.8	97.8	97.8	98.1	98.1	98.1	98.9	99.2	99.2	99.7	100.0	100.0	100.0
GE 200		67.8	72.7	91.8	97.8	97.8	98.1	98.1	98.1	98.9	99.2	99.2	99.7	100.0	100.0	100.0
GE 100		67.8	72.7	91.8	97.8	97.8	98.1	98.1	98.1	98.9	99.2	99.2	99.7	100.0	100.0	100.0
GE 0		67.8	72.7	91.8	97.8	97.8	98.1	98.1	98.1	98.9	99.2	99.2	99.7	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 366

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 76-85
MONTH: SEP HOURS(LST): ALL

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		27.8	29.5	35.3	36.9	36.9	38.0	38.4	38.5	39.0	39.2	39.3	39.4	39.6	39.7	39.8
GE 20000		32.5	34.4	41.1	43.0	43.0	44.3	44.8	44.9	45.5	45.8	46.0	46.0	46.3	46.4	46.5
GE 18000		32.7	34.7	41.4	43.4	43.4	44.7	45.3	45.4	46.0	46.2	46.4	46.4	46.7	46.8	46.9
GE 16000		32.8	34.7	41.5	43.4	43.5	44.7	45.3	45.4	46.1	46.3	46.5	46.5	46.8	46.9	47.0
GE 14000		32.8	34.8	41.7	43.7	43.7	45.0	45.5	45.7	46.3	46.6	46.8	46.8	47.1	47.2	47.3
GE 12000		34.2	36.1	43.2	45.3	45.4	46.7	47.3	47.4	48.1	48.3	48.5	48.5	48.9	49.0	49.1
GE 10000		36.1	38.2	45.7	47.9	48.0	49.4	50.0	50.1	50.8	51.1	51.3	51.3	51.7	51.8	51.9
GE 9000		38.0	40.2	48.3	50.5	50.6	52.0	52.6	52.7	53.4	53.7	53.9	53.9	54.3	54.4	54.6
GE 8000		42.9	45.4	55.0	57.5	57.6	59.0	59.7	59.8	60.6	60.8	61.0	61.0	61.5	61.5	61.7
GE 7000		44.9	47.8	58.3	61.0	61.1	62.8	63.4	63.6	64.4	64.6	64.8	64.8	65.2	65.3	65.5
GE 6000		45.7	48.8	59.4	62.2	62.2	64.0	64.7	64.8	65.6	65.8	66.0	66.0	66.5	66.5	66.7
GE 5000		48.6	51.8	62.9	66.0	66.1	68.1	68.9	69.0	69.8	70.1	70.3	70.3	70.7	70.8	71.0
GE 4500		50.9	54.4	66.2	69.4	69.5	71.5	72.3	72.4	73.3	73.5	73.7	73.8	74.2	74.3	74.5
GE 4000		55.3	59.2	72.1	75.7	76.0	78.1	79.1	79.3	80.1	80.4	80.6	80.7	81.1	81.2	81.4
GE 3500		58.8	62.8	76.4	80.6	80.9	83.0	84.1	84.2	85.1	85.4	85.5	85.6	86.0	86.1	86.3
GE 3000		62.3	66.7	81.2	85.6	85.9	88.3	89.5	89.6	90.6	90.9	91.1	91.2	91.6	91.7	91.9
GE 2500		63.1	67.5	82.2	87.0	87.3	89.8	91.1	91.3	92.3	92.6	92.8	92.9	93.3	93.4	93.6
GE 2000		64.4	69.0	84.1	89.0	89.4	92.1	93.4	93.5	94.6	95.0	95.1	95.3	95.7	95.8	96.0
GE 1800		64.4	69.0	84.1	89.2	89.5	92.2	93.5	93.7	94.9	95.2	95.4	95.5	96.0	96.1	96.2
GE 1500		64.6	69.3	84.7	89.8	90.2	92.9	94.2	94.4	95.7	96.1	96.2	96.4	96.9	96.9	97.1
GE 1200		64.6	69.4	84.9	90.1	90.5	93.2	94.5	94.8	96.1	96.4	96.6	96.8	97.2	97.3	97.5
GE 1000		64.6	69.4	85.1	90.3	90.7	93.5	94.8	95.0	96.4	96.7	96.9	97.1	97.5	97.6	97.8
GE 900		64.6	69.4	85.1	90.4	90.8	93.6	95.0	95.2	96.6	97.0	97.2	97.4	97.8	97.9	98.1
GE 800		64.6	69.4	85.1	90.5	90.9	93.8	95.2	95.4	96.9	97.2	97.5	97.7	98.1	98.2	98.4
GE 700		64.6	69.4	85.1	90.5	90.9	93.9	95.3	95.5	97.0	97.4	97.6	97.8	98.2	98.3	98.5
GE 600		64.6	69.4	85.1	90.5	90.9	94.0	95.3	95.6	97.1	97.5	97.7	97.9	98.4	98.5	98.7
GE 500		64.6	69.5	85.2	90.5	91.0	94.1	95.5	95.8	97.3	97.8	98.0	98.2	98.8	98.9	99.1
GE 400		64.6	69.5	85.2	90.5	91.0	94.1	95.5	95.8	97.4	97.8	98.0	98.2	98.9	99.0	99.2
GE 300		64.6	69.5	85.2	90.5	91.0	94.1	95.6	95.8	97.4	97.9	98.1	98.3	99.0	99.2	99.4
GE 200		64.7	69.5	85.2	90.6	91.0	94.2	95.6	95.8	97.5	98.0	98.2	98.5	99.2	99.4	99.7
GE 100		64.7	69.5	85.2	90.6	91.0	94.2	95.6	95.9	97.5	98.0	98.2	98.5	99.3	99.5	99.9
GE 0		64.7	69.5	85.2	90.6	91.0	94.2	95.6	95.9	97.5	98.0	98.2	98.5	99.3	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS: 3625

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 76-85
MONTH: OCT HOURS(LST): 0600-0800

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		11.5	12.3	17.3	19.9	20.0	22.1	23.1	23.1	24.2	24.4	24.4	24.8	26.0	26.3	28.1
GE 20000		12.9	14.2	20.8	23.8	24.0	26.9	27.9	27.9	29.2	29.4	29.4	30.0	31.3	31.7	33.8
GE 18000		13.1	14.4	21.0	24.0	24.2	27.1	28.1	28.1	29.4	29.6	29.6	30.2	31.5	31.9	34.0
GE 16000		13.1	14.4	21.0	24.0	24.2	27.1	28.1	28.1	29.4	29.6	29.6	30.2	31.5	31.9	34.0
GE 14000		13.1	14.4	21.0	24.0	24.2	27.1	28.1	28.1	29.4	29.6	29.6	30.2	31.5	31.9	34.0
GE 12000		13.1	14.4	21.5	24.4	24.6	27.5	28.5	28.5	29.8	30.0	30.0	30.6	31.9	32.3	34.4
GE 10000		14.0	15.2	23.3	26.5	26.7	29.6	30.6	30.6	31.9	32.1	32.1	32.7	34.0	34.4	36.5
GE 9000		15.6	16.9	25.0	28.1	28.3	31.3	32.3	32.3	33.5	33.8	33.8	34.4	35.6	36.0	38.1
GE 8000		18.1	19.4	28.1	31.5	31.7	34.6	35.6	35.6	36.9	37.1	37.1	37.7	39.0	39.4	41.5
GE 7000		18.8	20.4	29.8	33.3	33.5	36.9	37.9	37.9	39.4	39.6	39.6	40.2	41.5	41.9	44.0
GE 6000		19.2	20.8	31.3	34.8	35.0	38.3	39.4	39.4	41.0	41.3	41.3	41.9	43.1	43.5	45.6
GE 5000		20.6	22.9	33.5	37.3	37.5	40.8	41.9	41.9	43.5	43.8	44.0	44.6	45.8	46.3	48.3
GE 4500		21.7	24.2	35.2	39.0	39.2	42.5	43.5	43.5	45.2	45.4	45.6	46.3	47.5	47.9	50.0
GE 4000		24.4	27.3	38.8	42.9	43.1	46.7	47.7	47.7	49.4	49.6	49.8	50.4	51.7	52.1	54.2
GE 3500		27.1	30.4	43.3	48.3	48.5	53.1	54.2	54.4	56.5	56.7	57.1	57.7	59.0	59.4	61.5
GE 3000		28.5	32.3	46.0	51.7	52.5	57.5	58.5	58.8	61.3	61.5	61.9	62.5	64.2	64.6	66.9
GE 2500		30.0	34.2	49.6	55.2	56.3	62.1	63.5	63.8	66.7	67.1	67.5	68.1	69.8	70.2	72.5
GE 2000		31.0	36.3	53.1	59.2	60.4	66.3	67.7	68.1	71.3	71.9	72.3	72.9	74.6	75.0	77.3
GE 1800		31.0	36.5	53.3	59.4	60.6	66.7	68.3	69.0	72.1	72.9	73.3	74.0	75.6	76.0	78.3
GE 1500		33.5	39.0	57.1	63.3	64.6	70.8	72.5	73.3	76.5	77.3	77.7	78.3	80.0	80.4	82.7
GE 1200		34.2	39.6	58.8	65.2	66.5	73.1	75.0	75.8	79.0	79.8	80.6	81.3	82.9	83.3	85.6
GE 1000		34.2	39.6	60.8	67.3	68.5	75.6	77.7	78.5	82.1	82.9	83.8	84.4	86.0	86.5	89.0
GE 900		34.2	39.6	60.8	67.3	68.5	75.6	78.1	79.0	82.7	83.5	84.4	85.0	86.7	87.1	89.6
GE 800		34.2	39.6	60.8	67.3	68.5	75.6	78.1	79.0	82.7	83.5	84.4	85.0	86.7	87.1	89.6
GE 700		34.2	39.6	60.8	67.3	68.5	75.6	78.1	79.0	82.9	83.8	84.6	85.2	86.9	87.3	89.8
GE 600		34.2	39.6	60.8	67.3	68.5	75.8	78.3	79.2	83.1	84.0	84.8	85.4	87.1	87.7	90.2
GE 500		34.2	39.6	60.8	67.3	68.5	76.5	79.4	80.2	84.2	85.0	85.8	86.5	88.5	89.4	91.9
GE 400		34.2	39.6	61.3	67.7	69.0	76.9	79.8	81.0	85.0	85.8	86.7	87.3	89.4	90.4	93.1
GE 300		34.2	39.6	61.3	67.7	69.0	76.9	79.8	81.0	85.2	86.0	86.9	88.1	90.2	91.3	95.0
GE 200		34.2	39.6	61.3	67.7	69.0	76.9	80.0	81.3	85.4	86.3	87.3	89.0	91.3	92.3	96.7
GE 100		34.2	39.6	61.3	67.7	69.0	76.9	80.0	81.3	85.4	86.3	87.3	89.0	91.5	92.7	99.2
GE 0		34.2	39.6	61.3	67.7	69.0	76.9	80.0	81.3	85.4	86.3	87.3	89.0	91.5	92.7	100.0

TOTAL NUMBER OF OBSERVATIONS: 480

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 76-85
MONTH: OCT HOURS(LST): 0900-1100

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		15.6	16.4	22.7	24.5	24.7	25.8	26.1	26.2	26.7	26.7	26.8	27.0	27.1	27.1	27.1
GE 20000		16.7	17.9	25.5	27.3	27.4	29.1	29.4	29.5	30.3	30.3	30.5	30.6	30.8	30.8	30.9
GE 18000		16.7	17.9	25.5	27.3	27.4	29.1	29.4	29.5	30.3	30.3	30.5	30.6	30.8	30.8	30.9
GE 16000		16.7	17.9	25.5	27.3	27.4	29.1	29.4	29.5	30.3	30.3	30.5	30.6	30.8	30.8	30.9
GE 14000		16.7	18.0	25.8	27.6	27.7	29.4	29.7	29.8	30.6	30.6	30.8	30.9	31.1	31.1	31.2
GE 12000		17.6	18.9	26.8	28.6	28.8	30.5	30.8	30.9	31.7	31.7	31.8	32.0	32.1	32.1	32.3
GE 10000		19.5	20.9	29.5	31.8	32.0	33.9	34.2	34.4	35.2	35.2	35.3	35.5	35.6	35.6	35.8
GE 9000		21.5	22.9	31.5	33.8	33.9	35.9	36.2	36.4	37.1	37.1	37.3	37.6	37.7	37.7	37.9
GE 8000		25.6	27.6	36.7	39.4	39.7	41.8	42.1	42.3	43.0	43.0	43.2	43.5	43.6	43.6	43.8
GE 7000		27.0	29.2	38.6	41.7	42.0	44.2	44.5	44.7	45.5	45.5	45.6	45.9	46.1	46.1	46.2
GE 6000		27.1	29.4	38.9	42.0	42.3	44.5	44.8	45.0	45.8	45.8	45.9	46.2	46.4	46.4	46.5
GE 5000		29.1	31.7	41.7	44.7	45.0	47.6	48.3	48.5	49.4	49.4	49.7	50.0	50.2	50.2	50.3
GE 4500		30.6	33.3	44.1	47.3	47.6	50.2	50.9	51.1	52.0	52.0	52.3	52.6	52.7	52.7	52.9
GE 4000		33.5	36.8	48.3	51.8	52.1	54.8	55.8	56.1	57.0	57.3	57.6	57.9	58.0	58.0	58.5
GE 3500		35.5	38.9	51.4	55.3	55.6	58.5	59.5	59.8	60.8	61.1	61.4	61.7	61.8	61.8	62.3
GE 3000		38.9	42.6	55.5	59.7	60.2	63.5	64.7	65.0	66.1	66.4	66.7	67.1	67.4	67.4	67.9
GE 2500		41.1	44.8	58.5	63.0	63.6	67.1	68.3	68.6	69.7	70.0	70.3	70.8	71.1	71.1	71.5
GE 2000		43.0	47.4	61.7	66.7	67.4	71.4	72.7	73.0	74.4	74.7	75.0	75.5	75.8	75.8	76.2
GE 1800		43.0	47.4	61.7	66.7	67.4	71.4	72.7	73.0	74.4	74.7	75.0	75.5	75.8	75.8	76.2
GE 1500		44.8	49.7	66.1	71.5	72.3	76.4	77.9	78.2	79.7	80.2	80.5	81.1	81.4	81.4	81.8
GE 1200		45.9	51.2	68.8	74.7	75.6	80.5	82.7	83.0	84.7	85.2	85.5	86.1	86.4	86.4	86.8
GE 1000		46.1	51.5	70.2	76.5	77.4	83.0	85.5	85.8	87.4	87.9	88.2	88.8	89.1	89.1	89.5
GE 900		46.1	51.5	70.9	77.4	78.3	84.2	86.7	87.0	88.8	89.2	89.5	90.2	90.5	90.5	90.9
GE 800		46.1	51.5	70.9	77.5	78.5	84.4	87.0	87.3	89.1	89.5	89.8	90.5	90.8	90.8	91.2
GE 700		46.1	51.5	70.9	77.7	78.6	84.5	87.1	87.7	89.8	90.3	90.6	91.2	91.5	91.5	92.0
GE 600		46.1	51.5	70.9	77.7	78.6	84.7	87.4	88.0	90.3	90.8	91.1	91.7	92.0	92.0	92.4
GE 500		46.1	51.5	70.9	77.7	78.8	84.8	87.7	88.5	90.8	91.2	91.5	92.3	92.6	92.9	93.3
GE 400		46.1	51.5	70.9	77.7	78.9	85.0	88.0	88.8	91.7	92.1	92.4	93.3	93.9	94.2	95.2
GE 300		46.1	51.5	70.9	77.7	78.9	85.0	88.0	88.8	91.7	92.7	93.3	95.3	96.1	96.5	97.6
GE 200		46.1	51.5	70.9	77.7	78.9	85.0	88.0	88.8	91.8	92.9	93.5	95.5	96.4	96.8	98.6
GE 100		46.1	51.5	70.9	77.7	78.9	85.0	88.0	88.8	91.8	92.9	93.5	95.5	96.5	97.3	100.0
GE 0		46.1	51.5	70.9	77.7	78.9	85.0	88.0	88.8	91.8	92.9	93.5	95.5	96.5	97.3	100.0

TOTAL NUMBER OF OBSERVATIONS: 660

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 76-85
MONTH: OCT HOURS(LST): 1200-1400

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		25.0	25.9	31.9	33.5	33.0	33.6	33.6	33.6	33.8	33.8	33.8	33.8	33.8	33.8	33.8
GE 20000		28.1	29.2	36.8	38.1	38.1	38.7	38.7	38.7	38.8	38.8	38.8	38.8	38.8	38.8	38.8
GE 18000		28.3	29.4	36.9	38.2	38.2	38.8	38.8	38.8	39.0	39.0	39.0	39.0	39.0	39.0	39.0
GE 16000		28.3	29.4	36.9	38.2	38.2	38.8	38.8	38.8	39.0	39.0	39.0	39.0	39.0	39.0	39.0
GE 14000		28.6	29.7	37.3	38.5	38.5	39.2	39.2	39.2	39.3	39.3	39.3	39.3	39.3	39.3	39.3
GE 12000		29.6	30.7	38.2	39.5	39.5	40.1	40.1	40.1	40.3	40.3	40.3	40.3	40.3	40.3	40.3
GE 10000		32.1	33.2	40.9	42.6	42.6	43.2	43.2	43.2	43.4	43.4	43.4	43.4	43.4	43.4	43.4
GE 9000		33.6	34.7	42.5	44.1	44.2	44.8	44.8	44.8	45.0	45.0	45.0	45.0	45.0	45.0	45.0
GE 8000		37.4	38.5	46.7	48.3	48.4	49.1	49.1	49.1	49.2	49.2	49.2	49.2	49.2	49.2	49.2
GE 7000		39.5	40.7	48.9	50.5	50.6	51.3	51.3	51.3	51.4	51.4	51.4	51.4	51.4	51.4	51.4
GE 6000		39.5	40.7	48.9	50.5	50.6	51.3	51.3	51.3	51.4	51.4	51.4	51.4	51.4	51.4	51.4
GE 5000		40.3	41.7	50.5	52.2	52.5	53.3	53.3	53.5	53.6	53.6	53.6	53.6	53.6	53.6	53.6
GE 4500		41.8	43.4	52.2	53.9	54.2	55.0	55.0	55.2	55.3	55.3	55.3	55.3	55.3	55.3	55.3
GE 4000		47.6	49.2	58.3	60.4	60.7	61.5	61.6	61.8	61.9	61.9	61.9	61.9	61.9	61.9	61.9
GE 3500		52.4	53.9	63.8	66.4	66.7	67.8	67.9	68.2	68.4	68.4	68.4	68.4	68.4	68.4	68.4
GE 3000		56.8	59.4	70.1	73.0	73.3	74.4	74.6	75.2	75.3	75.3	75.3	75.3	75.3	75.3	75.3
GE 2500		59.0	61.8	73.6	76.6	76.9	78.1	78.8	79.1	79.2	79.2	79.2	79.2	79.2	79.2	79.2
GE 2000		61.5	64.9	78.1	81.1	81.4	82.7	83.3	83.6	83.8	83.8	83.8	83.8	83.8	83.8	83.8
GE 1800		62.1	65.6	79.4	82.5	82.9	84.1	84.7	85.1	85.2	85.2	85.2	85.2	85.2	85.2	85.2
GE 1500		63.1	66.8	81.9	85.4	85.7	87.3	88.1	88.4	88.5	88.5	88.5	88.5	88.5	88.5	88.5
GE 1200		64.6	68.6	85.2	90.1	90.4	92.3	93.1	93.4	93.6	93.6	93.6	93.6	93.6	93.6	93.6
GE 1000		64.8	68.7	86.2	91.7	92.1	94.8	95.6	95.9	96.5	96.5	96.5	96.5	96.7	96.7	96.7
GE 900		64.8	68.7	86.2	91.7	92.1	94.8	95.8	96.1	96.7	96.7	96.7	96.9	96.9	96.9	96.9
GE 800		64.8	68.7	86.2	92.0	92.5	95.1	96.1	96.4	97.0	97.0	97.0	97.0	97.2	97.2	97.2
GE 700		64.8	68.7	86.2	92.0	92.5	95.4	96.4	96.9	97.6	97.6	97.6	97.6	97.8	97.8	97.8
GE 600		64.8	68.7	86.2	92.0	92.5	95.6	96.8	97.2	98.0	98.0	98.0	98.0	98.1	98.1	98.1
GE 500		64.8	68.7	86.2	92.0	92.5	95.8	96.7	97.5	98.4	98.4	98.4	98.4	98.6	98.6	98.6
GE 400		64.8	68.7	86.2	92.0	92.5	95.8	96.7	97.8	98.9	99.8	99.7	99.7	99.8	99.8	99.8
GE 300		64.8	68.7	86.2	92.0	92.5	95.8	96.7	97.8	98.9	99.8	99.7	99.7	99.8	99.8	99.8
GE 200		64.8	68.7	86.2	92.0	92.5	95.8	96.7	97.8	98.9	99.8	99.7	99.7	100.0	100.0	100.0
GE 100		64.8	68.7	86.2	92.0	92.5	95.8	96.7	97.8	98.9	99.8	99.7	99.7	100.0	100.0	100.0
GE 0		64.8	68.7	86.2	92.0	92.5	95.8	96.7	97.8	98.9	99.8	99.7	99.7	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 636

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HAHAU AAF GERMANY PERIOD OF RECORD: 76-85
MONTH: OCT HOURS(LST): 1500-1700

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	LT 160	GE 90	GE 80	GE 60	GE 40	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		27.2	28.1	33.0	34.0	34.0	34.6	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8
GE 20000		32.5	33.7	39.3	40.3	40.7	41.3	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5
GE 18000		32.5	33.7	39.3	40.3	40.7	41.3	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5
GE 16000		32.5	33.7	39.5	40.5	40.8	41.5	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6
GE 14000		32.8	34.0	39.8	40.8	41.1	41.8	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
GE 12000		33.7	34.8	40.7	41.6	42.0	42.6	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8
GE 10000		37.2	38.4	44.6	45.5	46.0	46.7	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
GE 9000		37.9	39.0	45.2	46.2	46.7	47.3	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5
GE 8000		42.9	44.2	51.4	52.5	53.0	53.7	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
GE 7000		46.0	47.3	54.6	55.8	56.3	56.9	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
GE 6000		46.5	47.8	55.1	56.3	56.7	57.4	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
GE 5000		49.8	51.4	59.2	60.7	61.1	61.8	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
GE 4500		51.4	53.3	61.5	62.9	63.4	64.1	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
GE 4000		58.4	60.3	69.3	70.9	71.4	72.4	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
GE 3500		62.0	64.1	73.3	75.0	75.4	77.1	77.7	77.7	77.9	77.9	77.9	77.9	77.9	77.9	77.9
GE 3000		67.0	69.9	80.7	82.6	83.1	84.7	85.4	85.4	85.5	85.5	85.5	85.5	85.5	85.5	85.5
GE 2500		68.5	71.5	82.8	85.2	85.7	87.5	88.3	88.3	88.5	88.5	88.5	88.5	88.5	88.5	88.5
GE 2000		70.1	73.7	86.2	88.9	89.4	91.8	92.0	92.0	92.2	92.2	92.2	92.2	92.2	92.2	92.2
GE 1800		70.4	74.0	86.8	89.6	90.1	91.9	92.7	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.8
GE 1500		71.2	75.1	88.6	91.9	92.4	94.3	95.6	95.6	95.8	95.8	95.8	95.8	95.8	95.8	95.8
GE 1200		71.7	75.6	90.1	94.0	94.5	96.4	97.7	97.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0
GE 1000		71.7	75.6	90.2	94.1	94.6	97.1	98.4	98.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE 900		71.7	75.8	90.4	94.3	94.8	97.2	98.5	98.5	98.9	98.9	98.9	98.9	98.9	98.9	98.9
GE 800		71.7	75.8	90.4	94.3	94.8	97.2	98.5	98.5	98.9	98.9	98.9	98.9	98.9	98.9	98.9
GE 700		71.7	75.8	90.4	94.3	94.8	97.2	98.5	98.5	98.9	98.9	98.9	98.9	98.9	98.9	98.9
GE 600		71.7	75.8	90.4	94.3	94.8	97.2	98.5	98.5	99.0	99.0	99.0	99.0	99.0	99.0	99.0
GE 500		71.7	75.8	90.4	94.3	94.8	97.2	98.7	98.7	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 400		71.7	75.8	90.4	94.3	94.8	97.2	99.0	99.0	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 300		71.7	75.8	90.4	94.3	94.8	97.2	99.0	99.0	99.8	99.8	100.0	100.0	100.0	100.0	100.0
GE 200		71.7	75.8	90.4	94.3	94.8	97.2	99.0	99.0	99.8	99.8	100.0	100.0	100.0	100.0	100.0
GE 100		71.7	75.8	90.4	94.3	94.8	97.2	99.0	99.0	99.8	99.8	100.0	100.0	100.0	100.0	100.0
GE 0		71.7	75.8	90.4	94.3	94.8	97.2	99.	99.0	99.8	99.8	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 615

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106425 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 76-85
MONTH: OCT HOURS(LST): 1800-2000

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		28.9	30.0	36.1	39.1	40.0	41.4	42.3	42.7	43.0	43.2	43.2	43.2	43.4	43.4	43.4
GE 20000		31.6	33.9	41.3	44.5	45.4	46.8	47.7	48.0	48.4	48.6	48.6	48.6	48.8	48.8	48.8
GE 18000		31.6	33.9	41.3	44.5	45.4	46.8	47.7	48.0	48.4	48.6	48.6	48.6	48.8	48.8	48.8
GE 16000		31.6	33.9	41.3	44.5	45.4	46.8	47.7	48.0	48.4	48.6	48.6	48.6	48.8	48.8	48.8
GE 14000		32.0	34.3	41.6	44.8	45.7	47.1	48.0	48.4	48.8	48.9	48.9	48.9	49.1	49.1	49.1
GE 12000		32.5	35.0	42.7	45.9	46.8	48.2	49.1	49.5	49.8	50.0	50.0	50.0	50.2	50.2	50.2
GE 10000		33.9	36.4	44.6	47.9	48.8	50.2	51.1	51.4	51.8	52.0	52.0	52.0	52.1	52.1	52.1
GE 9000		34.5	37.0	45.2	48.4	49.3	50.7	51.6	52.0	52.3	52.5	52.5	52.5	52.7	52.7	52.7
GE 8000		36.8	39.2	48.0	51.3	52.1	53.8	54.6	55.0	55.4	55.5	55.5	55.5	55.7	55.7	55.7
GE 7000		39.6	42.3	52.0	55.2	56.1	57.7	58.6	58.9	59.3	59.5	59.5	59.5	59.6	59.6	59.6
GE 6000		40.5	43.2	52.9	56.1	57.0	58.6	59.5	59.8	60.2	60.4	60.4	60.4	60.5	60.5	60.5
GE 5000		43.0	45.9	56.1	59.3	60.4	62.0	62.9	63.2	63.9	64.1	64.1	64.1	64.3	64.3	64.3
GE 4500		44.3	47.5	57.7	60.9	62.0	63.6	64.5	64.8	65.7	65.9	65.9	65.9	66.1	66.1	66.1
GE 4000		49.1	52.5	64.5	68.0	69.1	71.6	72.9	73.2	74.1	74.3	74.3	74.3	74.5	74.5	74.5
GE 3500		52.1	55.9	68.6	72.1	73.2	75.7	77.0	77.3	78.2	78.4	78.4	78.4	78.6	78.6	78.6
GE 3000		55.0	58.9	73.0	77.3	78.4	80.9	82.1	82.5	83.4	83.6	83.6	83.6	83.8	83.8	83.8
GE 2500		56.6	60.7	75.7	81.1	82.1	84.8	86.1	86.4	87.3	87.5	87.5	87.5	87.7	87.7	87.7
GE 2000		58.2	62.3	77.9	84.1	85.2	88.0	89.8	90.2	91.1	91.3	91.3	91.3	91.4	91.4	91.4
GE 1800		58.8	62.9	78.8	85.0	86.1	88.9	90.7	91.1	92.0	92.1	92.1	92.1	92.3	92.3	92.3
GE 1500		60.0	64.1	80.9	88.0	89.3	92.7	94.6	95.0	95.9	96.1	96.1	96.1	96.3	96.3	96.3
GE 1200		60.0	64.1	81.6	89.1	90.7	94.5	96.4	96.8	97.9	98.0	98.0	98.0	98.2	98.2	98.2
GE 1000		60.0	64.1	81.8	89.3	90.9	94.6	96.8	97.1	98.2	98.4	98.4	98.4	98.6	98.6	98.6
GE 900		60.0	64.1	82.1	89.6	91.3	95.0	97.3	97.6	98.9	99.1	99.1	99.1	99.3	99.3	99.3
GE 800		60.0	64.1	82.1	89.6	91.3	95.0	97.5	97.9	98.9	99.1	99.1	99.1	99.3	99.3	99.3
GE 700		60.0	64.1	82.1	89.6	91.3	95.0	97.5	97.9	98.9	99.1	99.1	99.1	99.3	99.3	99.3
GE 600		60.0	64.1	82.1	89.6	91.3	95.0	97.5	97.9	98.9	99.1	99.1	99.1	99.3	99.3	99.3
GE 500		60.0	64.1	82.1	89.6	91.3	95.0	97.5	97.9	99.1	99.3	99.3	99.3	99.5	99.5	99.5
GE 400		60.0	64.1	82.1	89.6	91.3	95.0	97.5	97.9	99.1	99.3	99.3	99.3	99.5	99.5	99.5
GE 300		60.0	64.1	82.1	89.6	91.3	95.0	97.5	97.9	99.1	99.3	99.3	99.3	99.5	99.5	99.5
GE 200		60.0	64.1	82.1	89.6	91.3	95.0	97.5	97.9	99.1	99.3	99.3	99.3	99.5	99.5	99.5
GE 100		60.0	64.1	82.1	89.6	91.3	95.0	97.5	97.9	99.1	99.3	99.3	99.3	99.5	99.5	99.5
GE 0		60.0	64.1	82.1	89.6	91.3	95.0	97.5	97.9	99.1	99.3	99.3	99.3	99.5	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS: 560

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HAHAU AAF GERMANY PERIOD OF RECORD: 76-77,80-85
MONTH: OCT HOURS(LST): 2100-2300

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		27.6	32.9	39.5	42.1	44.7	48.2	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
GE 20000		30.3	36.0	43.0	46.1	48.7	52.2	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5
GE 18000		30.3	36.0	43.0	46.1	48.7	52.2	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5
GE 16000		30.3	36.0	43.0	46.1	48.7	52.2	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5
GE 14000		30.3	36.0	43.0	46.1	48.7	52.2	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5
GE 12000		31.1	36.8	43.9	46.9	49.6	53.1	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
GE 10000		31.1	36.8	43.9	46.9	49.6	53.5	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
GE 9000		32.0	37.7	44.7	47.8	50.4	54.4	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
GE 8000		37.3	43.0	50.4	53.5	56.1	60.1	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
GE 7000		38.6	44.7	52.2	55.3	57.9	61.8	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
GE 6000		38.6	44.7	52.2	55.3	57.9	61.8	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
GE 5000		42.5	48.7	56.6	59.6	62.3	66.7	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
GE 4500		43.9	50.9	58.8	61.8	64.5	68.9	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
GE 4000		46.9	54.4	64.5	69.3	71.9	76.3	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
GE 3500		46.9	56.1	66.7	71.5	74.1	78.5	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
GE 3000		48.2	57.9	69.7	75.4	78.1	82.5	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8
GE 2500		50.0	59.6	71.5	77.6	80.3	84.6	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
GE 2000		51.3	61.4	74.6	81.6	84.2	88.6	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
GE 1800		51.3	61.8	75.0	82.5	84.6	89.0	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
GE 1500		52.2	62.7	77.6	85.5	89.0	93.9	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
GE 1200		52.2	62.7	78.9	87.3	90.8	96.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
GE 1000		52.2	62.7	78.9	87.7	91.2	96.5	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
GE 900		52.2	62.7	78.9	87.7	91.2	96.5	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
GE 800		52.2	62.7	78.9	87.7	91.2	96.5	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
GE 700		52.2	62.7	78.9	87.7	91.2	96.5	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
GE 600		52.2	62.7	78.9	87.7	91.2	96.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE 500		52.2	62.7	78.9	87.7	91.2	96.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	99.1	99.1
GE 400		52.2	62.7	78.9	87.7	91.2	96.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	99.1	99.1
GE 300		52.2	62.7	78.9	87.7	91.2	96.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	99.1	99.1
GE 200		52.2	62.7	78.9	87.7	91.2	96.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	99.1	99.1
GE 100		52.2	62.7	78.9	87.7	91.2	96.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	99.1	99.6
GE 0		52.2	62.7	78.9	87.7	91.2	96.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS: 228

GLOBAL CLIMATOLOGY BRANCH — PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
USAFETAC — FROM HOURLY OBSERVATIONS
AIR WEATHER SERVICE/MAC

STATION NUMBER: 105420 STATION NAME: HANAU AAF GERMANY — PERIOD OF RECORD: 76-85
MONTH: OCT HOURS(LST): ALL

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 49	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		22.3	23.5	29.3	31.2	31.6	32.4	33.4	33.5	33.8	33.9	33.9	34.0	34.3	34.3	34.6
GE 20000		25.1	26.8	33.8	35.8	36.3	37.0	38.3	38.4	38.8	38.9	38.9	39.1	39.3	39.4	39.7
GE 18000		25.1	26.8	33.8	35.9	36.3	37.9	38.4	38.5	38.9	39.0	39.0	39.1	39.4	39.4	39.8
GE 16000		25.1	26.8	33.8	35.9	36.4	37.9	38.4	38.5	38.9	39.0	39.0	39.2	39.4	39.5	39.8
GE 14000		25.3	27.1	34.1	36.1	36.6	38.2	38.7	38.8	39.2	39.3	39.3	39.4	39.7	39.7	40.1
GE 12000		26.0	27.8	35.0	37.0	37.5	39.0	39.5	39.6	40.1	40.1	40.2	40.3	40.5	40.6	41.0
GE 10000		28.0	29.8	37.5	39.7	40.2	41.9	42.4	42.5	42.9	43.0	43.0	43.1	43.4	43.4	43.8
GE 9000		29.3	31.0	38.7	41.0	41.5	43.1	43.6	43.7	44.2	44.2	44.3	44.4	44.7	44.7	45.1
GE 8000		33.0	34.9	43.2	45.5	46.2	47.9	48.4	48.5	48.9	49.0	49.0	49.2	49.4	49.5	49.8
GE 7000		35.0	37.1	45.8	48.3	48.8	50.6	51.1	51.2	51.7	51.8	51.8	52.0	52.2	52.3	52.6
GE 6000		35.3	37.5	46.3	48.8	49.4	51.1	51.7	51.8	52.3	52.3	52.4	52.6	52.8	52.8	53.2
GE 5000		37.5	39.9	49.2	51.8	52.4	54.4	55.0	55.1	55.7	55.8	55.9	56.0	56.3	56.3	56.7
GE 4500		38.9	41.6	51.2	53.8	54.5	56.4	57.0	57.1	57.8	57.8	57.9	58.1	58.3	58.4	58.7
GE 4000		43.5	46.4	56.9	60.0	60.6	62.8	63.6	63.8	64.4	64.5	64.6	64.8	65.1	65.1	65.5
GE 3500		46.5	49.7	61.1	64.4	65.0	67.6	68.4	68.7	69.4	69.5	69.6	69.8	70.1	70.1	70.5
GE 3000		49.9	53.7	66.0	69.8	70.5	73.3	74.2	74.5	75.3	75.4	75.5	75.7	76.1	76.1	76.6
GE 2500		51.7	55.6	68.8	73.1	73.9	76.9	77.9	78.2	79.1	79.2	79.3	79.5	79.9	79.9	80.4
GE 2000		53.4	57.9	72.2	76.9	77.8	80.9	82.1	82.3	83.3	83.5	83.6	83.8	84.1	84.2	84.6
GE 1800		53.7	58.3	72.8	77.5	78.4	81.5	82.8	83.0	84.0	84.2	84.4	84.6	84.9	85.0	85.4
GE 1500		55.1	59.9	75.7	80.9	81.9	85.3	86.7	87.0	88.0	88.3	88.4	88.6	89.0	89.1	89.5
GE 1200		55.8	60.7	77.7	83.5	84.6	88.4	90.0	90.3	91.4	91.7	91.9	92.1	92.4	92.5	92.9
GE 1000		55.9	60.8	78.5	84.6	85.7	90.0	91.7	92.0	93.3	93.5	93.7	93.9	94.3	94.4	94.8
GE 900		55.9	60.9	78.8	84.9	86.0	90.3	92.2	92.5	93.9	94.1	94.3	94.5	94.9	95.0	95.4
GE 800		55.9	60.9	78.8	85.0	86.1	90.4	92.4	92.7	94.0	94.2	94.4	94.7	95.0	95.1	95.6
GE 700		55.9	60.9	78.8	85.0	86.1	90.5	92.5	92.9	94.3	94.6	94.7	95.0	95.3	95.4	95.9
GE 600		55.9	60.9	78.8	85.0	86.1	90.6	92.6	93.0	94.6	94.8	95.0	95.2	95.6	95.7	96.2
GE 500		55.9	60.9	78.8	85.0	86.2	90.8	92.9	93.4	95.0	95.3	95.5	95.7	96.2	96.4	96.9
GE 400		55.9	60.9	78.8	85.1	86.3	90.9	93.1	93.7	95.5	95.9	96.1	96.4	96.9	97.1	97.7
GE 300		55.9	60.9	78.8	85.1	86.3	90.9	93.1	93.7	95.5	96.0	96.4	96.9	97.5	97.8	98.6
GE 200		55.9	60.9	78.8	85.1	86.3	90.9	93.1	93.7	95.6	96.1	96.4	97.1	97.7	98.0	99.1
GE 100		55.9	60.9	78.8	85.1	86.3	90.9	93.1	93.7	95.6	96.1	96.4	97.1	97.8	98.2	99.8
GE 0		55.9	60.9	78.8	85.1	86.3	90.9	93.1	93.7	95.6	96.1	96.4	97.1	97.8	98.2	100.0

TOTAL NUMBER OF OBSERVATIONS: 3179

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HAHAU AAF GERMANY PERIOD OF RECORD: 76-85
MONTH: NOV HOURS(LST): 0600-0800

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 49	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		11.3	12.5	16.4	17.1	17.3	19.6	20.3	20.6	20.8	20.8	20.8	21.0	21.2	21.2	21.2
GE 20000		11.5	12.9	17.6	18.7	19.2	21.5	22.4	22.6	23.1	23.1	23.1	23.3	23.6	23.6	23.6
GE 18000		12.0	13.4	18.0	19.2	19.6	21.9	22.9	23.1	23.6	23.6	23.6	23.8	24.0	24.0	24.0
GE 16000		12.0	13.4	18.0	19.2	19.6	21.9	22.9	23.1	23.6	23.6	23.6	23.8	24.0	24.0	24.0
GE 14000		12.2	13.6	18.2	19.4	19.9	22.2	23.1	23.3	23.8	23.8	23.8	24.0	24.2	24.2	24.2
GE 12000		12.5	14.1	18.7	20.1	20.6	22.9	23.8	24.0	24.5	24.5	24.5	24.7	24.9	24.9	24.9
GE 10000		13.2	14.8	19.4	20.8	21.2	23.8	24.9	25.2	25.6	25.6	25.6	25.9	26.1	26.1	26.1
GE 9000		13.9	15.5	20.3	21.7	22.2	24.7	25.9	26.1	26.6	26.6	26.6	26.8	27.0	27.0	27.0
GE 8000		15.7	17.3	22.5	24.0	24.5	27.5	28.9	29.3	29.8	29.8	29.8	30.0	30.3	30.3	30.3
GE 7000		17.1	18.9	24.7	26.1	26.6	29.6	30.9	31.4	31.9	31.9	31.9	32.1	32.3	32.3	32.3
GE 6000		17.3	19.2	24.9	26.3	26.8	29.8	31.2	31.6	32.1	32.1	32.1	32.3	32.6	32.6	32.6
GE 5000		18.7	21.0	27.5	29.3	30.0	33.0	34.4	34.9	35.3	35.3	35.3	35.6	35.8	35.8	35.8
GE 4500		21.5	24.0	31.2	33.3	33.9	37.4	38.8	39.3	40.0	40.0	40.0	40.2	40.4	40.4	40.4
GE 4000		25.4	28.6	36.3	39.0	39.7	43.4	44.8	45.3	46.0	46.2	46.2	46.4	46.7	46.7	46.7
GE 3500		27.5	30.7	39.0	41.8	42.5	46.2	47.6	48.0	48.7	49.0	49.0	49.2	49.4	49.4	49.4
GE 3000		31.6	35.3	44.6	48.0	48.7	52.7	54.3	54.7	55.9	56.1	56.1	56.4	56.6	56.6	56.6
GE 2500		34.9	38.6	48.7	52.4	53.1	57.5	59.1	59.6	61.0	61.2	61.2	61.4	61.7	61.7	61.7
GE 2000		39.5	43.6	55.4	59.1	59.8	65.1	67.0	67.7	68.8	69.1	69.1	69.3	69.5	69.5	69.5
GE 1800		40.0	44.1	56.4	60.0	60.7	66.5	68.4	69.1	70.2	70.4	70.4	70.7	70.9	70.9	70.9
GE 1500		43.6	48.0	61.9	66.1	66.7	72.7	75.1	76.0	77.1	77.4	77.4	77.6	77.8	77.8	77.8
GE 1200		44.1	48.5	63.7	68.1	68.8	76.0	78.3	79.2	80.6	80.8	80.8	81.1	81.3	81.3	81.3
GE 1000		44.1	48.5	64.7	69.7	70.4	78.1	81.3	82.7	84.5	84.8	84.8	85.0	85.2	85.2	85.2
GE 900		44.3	49.0	66.3	71.6	72.3	79.9	83.1	84.5	86.8	87.3	87.3	87.5	87.8	87.8	87.8
GE 800		44.3	49.0	66.7	72.3	73.0	80.6	84.3	85.7	88.5	88.9	88.9	89.1	89.4	89.4	89.4
GE 700		44.3	49.0	66.7	72.3	73.0	80.6	84.3	85.7	88.5	88.9	88.9	89.4	89.6	89.6	89.6
GE 600		44.3	49.0	66.7	72.3	73.0	80.8	84.5	86.4	89.6	90.1	90.1	90.5	90.8	90.8	90.8
GE 500		44.3	49.0	66.7	72.5	73.2	81.5	85.7	87.5	91.0	91.5	91.5	91.9	92.1	92.1	92.1
GE 400		44.3	49.0	66.7	72.5	73.2	81.5	85.7	87.5	91.0	91.7	91.9	92.8	93.1	93.1	93.3
GE 300		44.3	49.0	66.7	72.5	73.2	81.5	85.7	87.5	91.2	91.9	92.1	93.3	94.0	94.2	95.8
GE 200		44.3	49.0	66.7	72.5	73.2	81.5	85.7	87.5	91.2	92.1	92.4	94.3	95.4	95.6	98.2
GE 100		44.3	49.0	66.7	72.5	73.2	81.5	85.7	87.5	91.2	92.1	92.4	94.7	95.8	96.8	99.8
GE 0		44.3	49.0	66.7	72.5	73.2	81.5	85.7	87.5	91.2	92.1	92.4	94.9	96.1	97.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 433

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105420 STATION NAME: HAHAU AAF GERMANY PERIOD OF RECORD: 76-85
MONTH: NOV HOURS(LST): 0900-1100

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		13.2	15.2	18.2	20.4	20.4	21.2	21.4	21.8	21.9	22.1	22.3	22.4	22.4	22.6	22.6
GE 20000		14.3	16.4	20.6	23.6	23.6	24.5	24.6	25.0	25.1	25.3	25.5	25.6	25.8	25.8	25.8
GE 18000		14.5	16.5	20.7	23.8	23.8	24.6	24.8	25.1	25.3	25.5	25.6	25.8	25.8	26.0	26.0
GE 16000		14.5	16.5	20.7	23.8	23.8	24.6	24.8	25.1	25.3	25.5	25.6	25.8	25.8	26.0	26.0
GE 14000		14.5	16.5	20.7	23.8	23.8	24.6	24.8	25.1	25.3	25.5	25.6	25.8	25.8	26.0	26.0
GE 12000		15.3	17.4	21.6	24.6	24.6	25.5	25.6	26.0	26.1	26.3	26.5	26.6	26.6	26.8	26.8
GE 10000		16.0	18.4	22.6	25.8	26.0	27.2	27.3	27.7	27.8	28.0	28.2	28.3	28.3	28.5	28.5
GE 9000		17.2	19.7	23.9	27.2	27.3	28.5	28.7	29.0	29.2	29.3	29.5	29.7	29.7	29.8	29.8
GE 8000		19.9	22.6	27.7	31.4	31.5	33.4	33.9	34.2	34.4	34.6	34.7	34.9	34.9	35.1	35.1
GE 7000		21.4	24.1	29.8	33.7	33.9	35.9	36.4	36.8	36.9	37.1	37.3	37.4	37.4	37.6	37.6
GE 6000		21.8	24.5	30.4	34.2	34.4	36.4	37.3	37.6	37.8	37.9	38.1	38.3	38.3	38.4	38.4
GE 5000		23.1	26.1	32.5	36.8	36.9	39.1	40.0	40.3	40.5	40.6	40.8	41.0	41.0	41.1	41.1
GE 4500		23.9	27.3	34.6	39.0	39.1	41.3	42.2	42.5	42.7	42.8	43.0	43.2	43.2	43.3	43.3
GE 4000		27.5	31.0	39.3	44.4	44.5	47.0	47.9	48.2	48.4	48.6	48.7	48.9	48.9	49.1	49.1
GE 3500		31.5	35.1	43.8	49.1	49.2	51.8	52.8	53.3	53.5	53.6	53.8	54.0	54.0	54.1	54.1
GE 3000		36.4	40.3	50.1	55.5	56.2	59.0	60.4	60.9	61.2	61.4	61.6	61.7	61.7	61.9	61.9
GE 2500		38.3	42.3	53.8	59.9	60.5	63.4	64.8	65.4	66.1	66.3	66.4	66.6	66.6	66.8	66.8
GE 2000		40.5	44.7	56.7	63.4	64.2	67.3	68.6	69.6	70.3	70.5	70.7	70.8	70.8	71.0	71.0
GE 1800		40.6	44.9	56.8	63.9	64.9	68.8	70.3	71.3	72.0	72.2	72.3	72.5	72.5	72.7	72.7
GE 1500		41.5	45.7	58.5	66.3	67.3	72.3	74.0	75.2	76.1	76.2	76.4	76.6	76.6	76.7	76.7
GE 1200		42.5	46.7	61.6	69.8	70.8	77.1	78.8	79.9	80.8	80.9	81.1	81.3	81.3	81.5	81.5
GE 1000		43.5	47.7	63.1	72.0	73.4	80.1	82.1	83.3	84.7	84.8	85.0	85.2	85.3	85.5	85.5
GE 900		43.8	48.2	64.2	73.2	74.5	81.8	84.0	85.2	86.5	86.7	86.8	87.0	87.2	87.4	87.4
GE 800		43.8	48.2	64.8	74.0	75.4	82.8	85.2	86.3	87.7	87.9	88.0	88.2	88.4	88.5	88.5
GE 700		43.8	48.2	64.9	74.4	75.7	83.6	86.2	87.4	89.2	89.4	89.5	89.7	89.9	90.1	90.1
GE 600		43.8	48.2	64.9	74.4	75.7	83.6	86.2	87.7	89.9	90.1	90.4	90.6	90.7	90.9	90.9
GE 500		43.8	48.2	64.9	74.4	75.7	84.3	87.0	88.9	91.2	91.7	92.1	92.2	92.4	92.6	92.6
GE 400		43.8	48.2	64.9	74.4	75.7	84.3	87.0	89.0	91.9	92.6	93.1	93.6	93.8	93.9	93.9
GE 300		43.8	48.2	64.9	74.4	75.7	84.3	87.0	89.0	91.9	92.6	93.3	94.3	94.8	95.4	96.5
GE 200		43.8	48.2	64.9	74.4	75.7	84.3	87.0	89.0	91.9	92.6	93.5	94.8	95.4	96.3	98.5
GE 100		43.8	48.2	64.9	74.4	75.7	84.3	87.0	89.0	91.9	92.6	93.5	94.8	95.8	97.3	99.5
GE 0		44.0	48.4	65.1	74.5	75.9	84.5	87.2	89.2	92.1	92.7	93.4	94.9	96.0	97.5	100.0

TOTAL NUMBER OF OBSERVATIONS: 593

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10542J STATION NAME: HAHAU AAF GERMANY PERIOD OF RECORD: 76-85
MONTH: NOV HOURS(LST): 1200-1400

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		16.1	17.3	21.2	22.9	23.1	23.1	23.3	23.6	23.6	23.6	23.6	23.8	23.8	23.8	23.8
GE 20000		18.5	20.2	24.6	26.7	26.8	26.8	27.0	27.3	27.3	27.3	27.3	27.5	27.5	27.5	27.5
GE 18000		18.5	20.2	24.6	26.7	26.8	26.8	27.0	27.3	27.3	27.3	27.3	27.5	27.5	27.5	27.5
GE 16000		18.5	20.2	24.6	26.7	26.8	26.8	27.0	27.3	27.3	27.3	27.3	27.5	27.5	27.5	27.5
GE 14000		18.7	20.4	24.8	26.8	27.0	27.0	27.2	27.5	27.5	27.5	27.5	27.7	27.7	27.7	27.7
GE 12000		18.7	20.4	25.0	27.0	27.2	27.2	27.5	27.7	27.7	27.7	27.7	27.8	27.8	27.8	27.8
GE 10000		19.4	21.4	27.3	29.7	29.9	29.9	30.1	30.4	30.4	30.4	30.4	30.6	30.6	30.6	30.6
GE 9000		20.2	22.4	28.4	30.9	31.1	31.1	31.2	31.6	31.6	31.6	31.6	31.7	31.7	31.7	31.7
GE 8000		24.6	27.0	33.4	36.3	36.2	36.5	36.7	37.0	37.0	37.0	37.0	37.2	37.2	37.2	37.2
GE 7000		26.0	28.4	35.1	38.0	38.2	39.0	39.4	39.7	39.7	39.7	39.7	39.9	39.9	39.9	39.9
GE 6000		26.3	28.7	35.5	38.5	38.7	39.7	40.1	40.4	40.4	40.4	40.4	40.6	40.6	40.6	40.6
GE 5000		27.7	30.2	37.5	40.6	40.7	41.9	42.3	42.6	42.6	42.6	42.6	42.8	42.8	42.8	42.8
GE 4500		28.0	30.7	38.5	41.6	41.8	43.0	43.5	43.8	43.8	43.8	43.8	44.0	44.0	44.0	44.0
GE 4000		34.3	37.0	46.0	49.7	49.9	52.0	52.5	52.8	52.8	52.8	52.8	53.0	53.0	53.0	53.0
GE 3500		38.9	41.9	51.4	55.2	55.3	57.4	57.9	58.2	58.2	58.2	58.2	58.4	58.4	58.4	58.4
GE 3000		44.1	47.9	58.2	62.0	62.1	64.2	65.2	65.5	65.5	65.5	65.5	65.7	65.7	65.7	65.7
GE 2500		47.7	51.4	62.5	66.9	67.1	69.1	70.1	70.5	70.6	70.6	70.6	70.8	70.8	70.8	70.8
GE 2000		50.3	54.3	66.0	70.8	71.0	73.0	74.2	74.9	75.0	75.0	75.0	75.2	75.2	75.2	75.2
GE 1800		50.4	54.5	67.1	71.8	72.0	74.2	75.4	76.1	76.2	76.2	76.2	76.4	76.4	76.4	76.4
GE 1500		52.6	56.9	71.0	76.2	76.4	78.8	80.0	80.6	80.8	80.8	80.8	81.0	81.0	81.0	81.0
GE 1200		54.2	59.3	75.2	81.5	81.7	84.7	86.2	86.9	87.1	87.1	87.1	87.3	87.3	87.3	87.3
GE 1000		55.0	60.3	77.4	85.1	85.4	89.0	90.8	91.5	91.7	91.7	91.7	91.9	91.9	91.9	91.9
GE 900		55.0	60.3	77.9	85.6	85.9	89.6	91.5	92.2	92.7	92.7	92.7	92.9	92.9	92.9	92.9
GE 800		55.3	60.6	78.3	86.1	86.4	90.7	92.5	93.2	93.7	93.7	93.7	93.9	93.9	93.9	93.9
GE 700		55.3	60.6	78.3	86.2	86.6	90.8	92.7	93.4	93.9	93.9	93.9	94.1	94.1	94.1	94.1
GE 600		55.3	60.6	78.3	86.2	86.6	91.0	93.2	94.1	94.9	94.9	94.9	95.6	95.6	95.6	95.6
GE 500		55.3	60.6	78.3	86.2	86.6	91.0	93.2	94.1	95.2	95.4	95.4	96.1	96.1	96.1	96.1
GE 400		55.3	60.6	78.3	86.2	86.6	91.0	93.4	94.2	95.9	96.3	96.3	97.1	97.3	97.3	97.3
GE 300		55.3	60.6	78.3	86.2	86.6	91.0	93.4	94.2	95.9	96.3	96.4	98.1	98.3	98.8	98.8
GE 200		55.3	60.6	78.3	86.2	86.6	91.0	93.4	94.2	95.9	96.3	96.4	98.5	99.0	99.5	100.0
GE 100		55.3	60.6	78.3	86.2	86.6	91.0	93.4	94.2	95.9	96.3	96.4	98.5	99.0	99.5	100.0
GE 0		55.3	60.6	78.3	86.2	86.6	91.0	93.4	94.2	95.9	96.3	96.4	98.5	99.0	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS: 589

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 76-85
MONTH: NOV HOURS(LST): 1500-1700

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		16.2	16.9	21.0	22.0	22.0	22.5	22.5	22.7	23.2	23.2	23.2	23.2	23.2	23.2	23.2
GE 20000		19.3	20.8	25.3	26.6	26.6	27.1	27.1	27.3	27.8	27.8	27.8	27.8	27.8	27.8	27.8
GE 18000		20.1	21.7	26.3	27.6	27.6	28.2	28.2	28.3	28.8	28.8	28.8	28.8	28.8	28.8	28.8
GE 16000		20.1	21.7	26.3	27.6	27.6	28.2	28.2	28.3	28.8	28.8	28.8	28.8	28.8	28.8	28.8
GE 14000		20.3	21.8	26.5	27.8	27.8	28.3	28.3	28.5	29.0	29.0	29.0	29.0	29.0	29.0	29.0
GE 12000		21.0	22.5	27.5	28.8	28.8	29.4	29.4	29.5	30.0	30.0	30.0	30.0	30.0	30.0	30.0
GE 10000		21.8	23.4	28.8	30.2	30.2	30.9	30.9	31.1	31.6	31.6	31.6	31.6	31.6	31.6	31.6
GE 9000		22.9	24.4	29.9	31.2	31.2	31.9	31.9	32.1	32.6	32.6	32.6	32.6	32.6	32.6	32.6
GE 8000		25.3	28.5	35.0	36.9	37.0	37.7	37.7	37.9	38.4	38.4	38.4	38.4	38.4	38.4	38.4
GE 7000		28.7	30.9	37.7	40.4	40.8	41.8	41.8	42.0	42.5	42.5	42.5	42.5	42.5	42.5	42.5
GE 6000		29.5	31.7	38.6	41.3	41.6	42.8	42.8	43.0	43.5	43.5	43.5	43.5	43.5	43.5	43.5
GE 5000		31.2	33.8	42.2	44.9	45.2	46.6	46.6	46.8	47.3	47.3	47.3	47.3	47.3	47.3	47.3
GE 4500		33.3	35.8	44.7	47.4	47.8	49.1	49.1	49.3	49.8	49.8	49.8	49.8	49.8	49.8	49.8
GE 4000		38.6	41.3	51.0	54.1	54.4	56.1	56.1	56.3	56.8	56.8	56.8	56.8	56.8	56.8	56.8
GE 3500		42.2	45.4	55.8	58.9	59.2	60.9	60.9	61.3	61.8	61.8	61.8	61.8	61.8	61.8	61.8
GE 3000		48.1	51.9	63.3	66.4	66.7	68.8	68.9	69.3	69.8	69.8	69.8	69.8	69.8	69.8	69.8
GE 2500		51.2	54.9	66.9	70.0	70.3	72.4	72.5	72.9	73.4	73.4	73.4	73.4	73.4	73.4	73.4
GE 2000		55.6	59.6	72.7	76.1	76.5	78.5	79.2	79.7	80.2	80.2	80.2	80.2	80.2	80.2	80.2
GE 1800		56.3	60.2	73.7	77.1	77.5	79.5	80.2	80.7	81.2	81.2	81.2	81.2	81.2	81.2	81.2
GE 1500		56.8	60.9	75.8	79.7	80.0	82.1	82.8	83.3	83.8	83.8	83.8	83.8	83.8	83.8	83.8
GE 1200		57.2	61.4	76.7	83.9	84.1	86.5	87.2	87.7	88.2	88.2	88.2	88.2	88.2	88.2	88.2
GE 1000		57.8	62.3	80.7	85.8	86.2	88.9	89.8	90.4	91.0	91.0	91.0	91.1	91.1	91.1	91.1
GE 900		57.8	62.3	81.2	86.3	86.7	89.4	90.3	91.0	91.5	91.5	91.5	91.6	91.6	91.6	91.6
GE 800		58.0	62.5	81.6	87.0	87.7	90.8	91.6	92.3	92.8	92.8	92.8	93.0	93.0	93.0	93.0
GE 700		58.0	62.5	81.6	87.0	87.7	91.0	92.3	93.2	93.7	93.7	93.7	93.9	93.9	93.9	93.9
GE 600		58.0	62.5	81.6	87.2	87.9	91.5	93.2	94.4	95.1	95.1	95.1	95.2	95.2	95.2	95.2
GE 500		58.0	62.5	81.6	87.4	88.1	91.6	93.3	94.5	95.2	95.6	95.6	96.6	96.6	96.6	96.8
GE 400		58.0	62.5	81.7	87.7	88.4	92.0	93.7	94.9	95.7	96.1	96.1	97.6	97.6	97.6	97.8
GE 300		58.0	62.5	81.7	87.7	88.4	92.0	93.7	94.9	95.7	96.4	96.4	98.3	98.3	98.3	99.0
GE 200		58.0	62.5	81.7	87.7	88.4	92.0	93.7	94.9	95.7	96.4	96.4	98.3	98.5	98.5	99.7
GE 100		58.0	62.5	81.7	87.7	88.4	92.0	93.7	94.9	95.7	96.4	96.4	98.3	98.5	98.5	100.0
GE 0		58.0	62.5	81.7	87.7	88.4	92.0	93.7	94.9	95.7	96.4	96.4	98.3	98.5	98.5	100.0

TOTAL NUMBER OF OBSERVATIONS: 586

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 76-85
MONTH: NOV HOURS(LST): 1800-2000

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		18.4	19.4	25.0	26.2	26.4	27.9	28.1	28.1	29.4	29.4	29.4	29.6	29.6	29.6	29.6
GE 20000		20.3	21.3	27.1	28.8	29.0	30.9	31.3	31.3	32.6	32.6	32.6	32.8	32.8	32.8	32.8
GE 18000		21.1	22.0	28.3	30.0	30.2	32.1	32.4	32.4	33.8	33.8	33.8	34.0	34.0	34.0	34.0
GE 16000		21.1	22.0	28.3	30.0	30.2	32.1	32.4	32.4	33.8	33.8	33.8	34.0	34.0	34.0	34.0
GE 14000		21.1	22.0	28.3	30.0	30.2	32.1	32.4	32.4	33.8	33.8	33.8	34.0	34.0	34.0	34.0
GE 12000		21.1	22.0	28.3	30.0	30.2	32.1	32.4	32.4	33.8	33.8	33.8	34.0	34.0	34.0	34.0
GE 10000		21.6	22.6	28.8	30.6	31.1	33.2	33.6	33.6	34.9	34.9	34.9	35.1	35.1	35.1	35.1
GE 9000		22.6	23.5	30.0	31.7	32.3	34.3	34.7	34.7	36.1	36.1	36.1	36.2	36.2	36.2	36.2
GE 8000		25.6	27.1	34.2	36.1	36.6	38.7	39.8	39.8	41.6	41.6	41.6	41.7	41.7	41.7	41.7
GE 7000		27.5	29.0	37.6	39.5	40.0	42.1	43.3	43.3	45.5	45.5	45.5	45.7	45.7	45.7	45.7
GE 6000		28.1	29.6	38.3	40.2	40.8	43.1	44.4	44.4	46.7	46.7	46.7	46.9	46.9	46.9	46.9
GE 5000		31.5	33.0	42.9	45.4	45.9	48.2	49.7	49.7	52.0	52.0	52.0	52.2	52.2	52.2	52.2
GE 4500		33.8	35.9	45.7	48.2	48.8	51.0	52.6	52.6	54.8	54.8	54.8	55.0	55.0	55.0	55.0
GE 4000		38.1	40.2	50.9	53.5	54.1	57.3	58.8	59.0	61.3	61.3	61.3	61.5	61.5	61.5	61.5
GE 3500		40.4	42.9	54.1	56.7	57.3	60.7	62.2	62.4	64.7	64.7	64.7	64.9	64.9	64.9	64.9
GE 3000		45.4	48.2	60.2	63.4	63.9	67.7	69.4	69.6	71.9	71.9	71.9	72.1	72.1	72.1	72.1
GE 2500		48.6	51.8	64.9	68.3	68.9	72.7	74.4	74.6	76.9	76.9	76.9	77.0	77.0	77.0	77.0
GE 2000		51.0	55.2	69.1	73.1	73.6	77.4	79.1	79.5	82.0	82.0	82.2	82.4	82.4	82.4	82.4
GE 1800		51.0	55.2	69.3	73.2	73.8	77.6	79.3	79.7	82.2	82.2	82.4	82.5	82.5	82.5	82.5
GE 1500		51.0	55.2	69.3	73.6	74.2	78.2	79.9	80.6	83.5	83.5	83.7	83.9	83.9	83.9	83.9
GE 1200		52.2	56.4	71.7	76.7	77.4	82.2	84.4	85.2	88.0	88.0	88.2	88.4	88.4	88.4	88.4
GE 1000		52.6	56.7	72.5	77.4	78.2	84.3	86.5	87.3	90.5	90.5	90.7	90.9	90.9	90.9	90.9
GE 900		52.6	56.7	72.7	77.8	78.6	84.6	87.3	88.0	91.3	91.3	91.5	91.7	91.7	91.7	91.7
GE 800		52.6	56.7	73.1	78.2	78.9	85.0	87.9	89.0	92.2	92.2	92.4	93.0	93.0	93.0	93.0
GE 700		52.6	56.7	73.2	78.4	79.1	85.2	88.4	89.8	93.0	93.0	93.2	93.7	93.7	93.7	93.7
GE 600		52.6	56.7	73.2	78.4	79.1	85.2	88.4	89.8	93.4	93.5	93.7	94.3	94.3	94.3	94.3
GE 500		52.6	56.7	73.2	78.4	79.1	85.2	88.6	89.9	94.1	94.9	95.1	95.8	95.8	95.8	95.8
GE 400		52.6	56.9	73.4	78.6	79.3	85.6	89.2	90.7	95.1	96.6	96.8	97.5	97.5	97.5	97.5
GE 300		52.6	56.9	73.4	78.6	79.3	85.6	89.2	90.7	95.4	97.0	97.2	97.9	97.9	97.9	97.9
GE 200		52.6	56.9	73.4	78.6	79.3	85.6	89.2	90.7	95.4	97.0	97.2	97.9	98.1	98.1	98.7
GE 100		52.6	56.9	73.4	78.6	79.3	85.6	89.2	90.7	95.4	97.0	97.3	98.1	98.3	98.3	99.8
GE 0		52.8	57.1	73.6	78.7	79.5	85.8	89.4	90.9	95.6	97.2	97.5	98.3	98.5	98.5	100.0

TOTAL NUMBER OF OBSERVATIONS: 527

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HAHAU AAF GERMANY

PERIOD OF RECORD: 76-78,80-85
MONTH: NOV HOURS(LST): 2100-2300

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		19.1	21.4	26.2	31.8	32.7	33.6	34.5	34.5	34.5	34.5	35.5	35.5	36.4	36.4	36.4
GE 20000		19.5	22.3	29.1	33.2	34.1	35.0	35.9	35.9	36.4	36.4	37.3	37.3	38.2	38.2	38.2
GE 18000		19.5	22.3	29.5	33.6	34.5	35.5	36.4	36.4	36.8	36.8	37.7	37.7	38.6	38.6	38.6
GE 16000		19.5	22.3	29.5	33.6	34.5	35.5	36.4	36.4	36.8	36.8	37.7	37.7	38.6	38.6	38.6
GE 14000		19.5	22.3	29.5	33.6	34.5	35.5	36.4	36.4	36.8	36.8	37.7	37.7	38.6	38.6	38.6
GE 12000		19.5	22.3	29.5	33.6	34.5	35.5	36.4	36.4	36.8	36.8	37.7	37.7	38.6	38.6	38.6
GE 10000		20.5	23.2	30.5	34.5	35.5	36.8	37.7	37.7	38.2	38.2	39.1	39.1	40.0	40.0	40.0
GE 9000		20.9	23.6	30.9	35.0	35.9	37.3	38.2	38.2	38.6	38.6	39.5	39.5	40.5	40.5	40.5
GE 8000		22.7	25.9	34.5	39.1	40.0	41.4	42.3	43.2	44.5	44.5	45.5	45.5	46.4	46.4	46.4
GE 7000		25.5	28.6	38.6	43.2	44.1	45.5	46.4	47.3	48.6	48.6	49.5	49.5	51.4	51.4	51.4
GE 6000		25.5	28.6	38.6	43.2	44.1	45.5	46.4	47.3	48.6	48.6	49.5	49.5	51.4	51.4	51.4
GE 5000		27.7	30.9	41.8	46.8	47.7	49.1	50.0	50.9	52.3	52.3	53.2	53.2	55.0	55.0	55.0
GE 4500		29.1	32.7	43.6	48.6	49.5	50.9	51.8	52.7	54.1	54.1	55.0	55.0	56.8	56.8	56.8
GE 4000		34.5	38.6	49.5	55.0	56.4	58.6	59.5	60.5	61.8	61.8	62.7	62.7	64.5	64.5	64.5
GE 3500		37.3	41.4	53.6	59.1	60.5	62.7	63.6	64.5	65.9	65.9	66.8	66.8	68.6	68.6	68.6
GE 3000		40.9	46.8	59.5	67.3	68.6	70.9	71.8	73.2	75.0	75.0	75.9	75.9	77.7	77.7	77.7
GE 2500		42.7	48.6	61.8	69.5	70.9	73.2	74.5	75.9	77.7	77.7	78.6	78.6	80.5	80.5	80.5
GE 2000		46.4	52.3	65.5	74.1	75.5	77.7	79.5	80.9	82.7	82.7	83.6	83.6	85.5	85.5	85.5
GE 1800		46.4	53.2	66.4	75.0	76.4	78.6	80.5	81.8	83.6	83.6	84.5	84.5	86.4	86.4	86.4
GE 1500		46.4	53.2	66.4	75.0	76.4	78.6	80.5	82.7	84.5	84.5	85.5	85.5	87.3	87.3	87.3
GE 1200		47.3	54.1	69.1	78.6	80.0	82.3	84.1	86.4	88.2	88.2	89.1	89.1	90.9	90.9	90.9
GE 1000		47.3	54.1	69.1	78.5	80.0	82.3	84.5	86.8	89.5	89.5	90.5	90.5	92.3	92.3	92.3
GE 900		47.3	54.1	69.1	78.5	80.0	82.3	85.5	87.7	90.5	90.5	91.4	91.4	93.2	93.2	93.2
GE 800		47.3	54.1	70.0	79.5	80.9	83.2	86.4	88.6	91.4	91.8	92.7	93.2	95.0	95.0	95.0
GE 700		47.3	54.1	70.0	79.5	80.9	83.6	86.8	89.1	91.8	92.3	93.2	93.6	95.5	95.5	95.5
GE 600		47.3	54.1	70.0	79.5	80.9	84.5	88.2	90.5	93.2	94.1	95.5	95.9	97.7	97.7	97.7
GE 500		47.3	54.1	70.0	79.5	80.9	84.5	88.2	90.5	93.2	94.1	95.5	95.9	97.7	97.7	97.7
GE 400		47.3	54.1	70.0	79.5	80.9	84.5	88.2	90.5	94.5	95.5	96.8	97.3	99.1	99.1	99.1
GE 300		47.3	54.1	70.0	79.5	80.9	84.5	88.2	90.5	94.5	95.5	96.8	97.3	99.1	99.1	99.1
GE 200		47.3	54.1	70.0	79.5	80.9	84.5	88.2	90.5	94.5	95.5	96.8	97.3	99.1	99.1	99.1
GE 100		47.3	54.1	70.0	79.5	80.9	84.5	88.2	90.5	94.5	95.5	96.8	97.3	99.1	100.0	100.0
GE 0		47.3	54.1	70.0	79.5	80.9	84.5	88.2	90.5	94.5	95.5	96.8	97.3	99.1	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 220

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10542J STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 76-85
MONTH: NOV HOURS(LST): ALL

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		15.5	16.8	21.1	22.6	22.8	23.7	24.0	24.2	24.6	24.7	24.8	24.9	25.0	25.0	25.0
GE 20000		17.2	18.8	23.7	25.7	25.9	27.0	27.3	27.5	28.0	28.0	28.1	28.3	28.4	28.4	28.4
GE 18000		17.6	19.2	24.2	26.3	26.5	27.5	27.8	28.1	28.5	28.6	28.7	28.8	28.9	28.9	28.9
GE 16000		17.6	19.2	24.2	26.3	26.5	27.5	27.8	28.1	28.5	28.6	28.7	28.8	28.9	28.9	28.9
GE 14000		17.7	19.3	24.3	26.4	26.6	27.6	28.0	28.2	28.6	28.7	28.8	28.9	29.0	29.0	29.0
GE 12000		18.0	19.7	24.8	26.9	27.1	28.1	28.5	28.7	29.1	29.2	29.3	29.4	29.5	29.5	29.5
GE 10000		19.8	20.6	26.0	28.2	28.5	29.7	30.1	30.3	30.8	30.8	30.9	31.1	31.2	31.2	31.2
GE 9000		19.7	21.5	27.1	29.3	29.6	30.8	31.2	31.4	31.9	31.9	32.0	32.2	32.3	32.3	32.3
GE 8000		22.7	24.9	31.2	33.7	34.1	35.5	36.2	36.5	37.1	37.1	37.2	37.3	37.4	37.5	37.5
GE 7000		24.5	26.8	33.8	36.5	36.9	38.6	39.2	39.6	40.3	40.3	40.4	40.5	40.7	40.7	40.7
GE 6000		25.0	27.2	34.3	37.1	37.4	39.2	40.0	40.3	41.0	41.0	41.1	41.3	41.5	41.5	41.5
GE 5000		26.8	29.3	37.2	40.3	40.7	42.6	43.4	43.7	44.4	44.5	44.6	44.7	44.9	44.9	44.9
GE 4500		28.4	31.1	39.6	42.7	43.1	45.1	45.9	46.2	46.9	47.0	47.1	47.2	47.4	47.4	47.4
GE 4000		33.2	36.1	45.4	49.0	49.5	52.0	52.8	53.2	53.9	54.0	54.1	54.2	54.4	54.4	54.4
GE 3500		36.5	39.7	49.6	53.3	53.7	56.3	57.2	57.6	58.3	58.4	58.5	58.6	58.8	58.8	58.8
GE 3000		41.5	45.3	56.0	60.1	60.7	63.5	64.6	65.1	65.9	66.0	66.1	66.2	66.4	66.5	66.5
GE 2500		44.4	48.3	60.0	64.4	65.0	67.8	69.0	69.5	70.5	70.6	70.7	70.8	71.0	71.0	71.0
GE 2000		47.6	51.9	64.4	69.3	69.9	72.9	74.3	75.0	76.0	76.1	76.2	76.4	76.5	76.6	76.6
GE 1900		47.9	52.2	65.1	70.0	70.7	74.0	75.4	76.1	77.1	77.2	77.3	77.4	77.6	77.6	77.6
GE 1500		49.2	53.6	67.4	72.9	73.5	77.1	78.6	79.5	80.7	80.7	80.9	81.0	81.2	81.2	81.2
GE 1200		50.1	54.7	70.4	76.6	77.2	81.6	83.3	84.2	85.3	85.4	85.5	85.7	85.9	85.9	85.9
GE 1000		50.6	55.3	71.8	78.5	79.2	84.2	86.2	87.2	88.7	88.8	88.9	89.1	89.3	89.3	89.3
GE 900		50.7	55.5	72.5	79.3	80.0	85.1	87.3	88.3	89.9	90.0	90.2	90.3	90.5	90.6	90.6
GE 800		50.8	55.6	73.0	79.9	80.7	86.1	88.4	89.5	91.1	91.2	91.4	91.7	91.9	91.9	91.9
GE 700		50.8	55.6	73.0	80.1	80.9	86.4	88.9	90.0	91.8	91.9	92.1	92.4	92.6	92.6	92.6
GE 600		50.8	55.6	73.0	80.1	80.9	86.6	89.3	90.7	92.7	92.9	93.1	93.6	93.8	93.8	93.8
GE 500		50.8	55.6	73.0	80.2	81.0	86.9	89.7	91.1	93.5	93.9	94.1	94.7	94.9	95.0	95.0
GE 400		50.8	55.6	73.1	80.3	81.1	87.0	89.9	91.4	94.1	94.8	95.1	96.0	96.2	96.2	96.3
GE 300		50.8	55.6	73.1	80.3	81.1	87.0	89.9	91.4	94.2	95.0	95.3	96.6	96.9	97.2	97.8
GE 200		50.8	55.6	73.1	80.3	81.1	87.0	89.9	91.4	94.2	95.0	95.4	96.9	97.5	97.8	99.1
GE 100		50.8	55.6	73.1	80.3	81.1	87.0	89.9	91.4	94.2	95.0	95.4	97.0	97.7	98.3	99.8
GE 0		50.9	55.7	73.2	80.3	81.1	87.1	90.0	91.5	94.3	95.1	95.5	97.1	97.8	98.4	100.0

TOTAL NUMBER OF OBSERVATIONS: 2948

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105420 STATION NAME: HAHAU AAF GERMANY PERIOD OF RECORD: 76-85
MONTH: DEC HOURS(LST): 0600-0800

CEILINGS IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		9.2	10.9	15.7	16.5	17.4	18.2	18.6	18.6	18.6	18.6	19.1	19.1	19.6	19.6	19.6
GE 20000		9.7	11.4	17.2	18.5	19.6	20.6	21.1	21.1	21.1	21.1	21.5	21.8	22.3	22.3	22.3
GE 18000		9.7	11.4	17.2	18.5	19.6	20.6	21.1	21.1	21.1	21.1	21.5	21.8	22.3	22.3	22.3
GE 16000		9.7	11.4	17.2	18.6	19.6	20.6	21.1	21.1	21.1	21.1	21.5	21.8	22.3	22.3	22.3
GE 14000		9.7	11.4	17.2	18.6	19.6	20.6	21.1	21.1	21.1	21.1	21.5	21.8	22.3	22.3	22.3
GE 12000		9.7	11.4	17.2	18.5	19.6	20.6	21.1	21.1	21.1	21.1	21.5	21.8	22.3	22.3	22.3
GE 10000		10.2	12.6	19.1	20.6	21.5	22.5	23.0	23.0	23.0	23.0	23.5	23.7	24.2	24.2	24.2
GE 9000		10.7	13.3	20.3	21.8	22.8	23.7	24.2	24.2	24.2	24.2	24.7	24.9	25.4	25.4	25.4
GE 8000		12.8	15.5	23.0	24.5	25.4	26.4	26.9	26.9	26.9	26.9	27.4	27.6	28.1	28.1	28.1
GE 7000		14.0	17.2	25.9	27.4	28.3	29.3	29.8	29.8	29.8	29.8	30.3	30.5	31.2	31.2	31.2
GE 6000		14.0	17.2	25.9	27.4	28.3	29.3	29.8	29.8	29.8	29.8	30.3	30.5	31.2	31.2	31.2
GE 5000		16.9	20.6	29.5	31.0	32.2	33.2	33.7	33.9	33.9	34.1	34.6	34.9	35.6	35.6	35.6
GE 4500		19.6	24.0	32.9	34.4	35.6	36.6	37.0	37.3	37.3	37.5	38.0	38.3	39.0	39.0	39.0
GE 4000		23.2	28.6	38.0	39.5	40.7	42.1	42.6	42.9	42.9	43.1	43.6	43.8	44.6	44.6	44.6
GE 3500		24.2	29.5	39.2	40.9	42.4	44.3	44.8	45.0	45.0	45.3	45.8	46.0	46.7	46.7	46.7
GE 3000		29.8	35.4	46.0	48.4	49.9	52.1	53.0	53.3	53.5	53.8	54.2	54.5	55.2	55.2	55.2
GE 2500		34.2	39.7	51.3	53.9	55.2	57.6	58.6	58.8	59.1	59.3	59.8	60.0	60.8	60.8	60.8
GE 2000		37.5	45.5	59.1	63.4	65.1	68.3	69.7	70.0	70.2	70.7	71.2	71.7	72.4	72.4	72.4
GE 1800		39.7	47.7	61.7	66.3	68.0	71.2	72.6	72.9	73.1	73.6	74.1	74.6	75.3	75.3	75.3
GE 1500		41.4	49.9	65.6	70.9	72.6	76.0	77.5	77.7	78.2	78.7	79.2	79.7	80.4	80.4	80.4
GE 1200		41.9	51.6	67.8	73.8	75.5	79.7	81.4	82.3	83.3	83.8	84.3	84.7	85.5	85.5	85.5
GE 1000		42.1	52.3	69.7	76.5	78.2	82.6	84.3	85.2	86.4	86.9	87.4	87.9	88.6	88.6	88.6
GE 900		43.1	53.3	70.7	78.0	79.7	84.0	86.2	87.2	88.4	88.9	89.3	89.8	90.6	90.6	90.6
GE 800		43.6	53.8	71.4	79.2	80.9	85.2	87.4	88.4	89.6	90.1	90.8	91.3	92.0	92.0	92.0
GE 700		43.6	53.8	71.7	79.7	81.4	86.0	88.4	89.3	90.6	91.0	91.8	92.3	93.0	93.0	93.0
GE 600		43.6	54.0	72.2	80.6	82.3	87.2	89.8	91.0	92.5	93.0	93.7	94.2	94.9	94.9	94.9
GE 500		43.6	54.2	72.4	80.9	82.6	87.4	90.1	91.5	93.0	93.5	94.2	94.7	95.4	95.4	95.6
GE 400		43.6	54.2	72.4	80.9	82.6	87.4	90.1	91.5	93.0	93.5	94.2	94.7	95.4	95.4	95.6
GE 300		43.6	54.2	72.4	80.9	82.6	87.7	90.6	92.0	93.9	94.4	95.6	96.1	96.9	96.9	97.8
GE 200		43.6	54.2	72.4	80.9	82.6	87.7	90.6	92.0	93.9	94.7	96.4	97.1	98.1	98.1	99.3
GE 100		43.6	54.2	72.4	80.9	82.6	87.7	90.6	92.0	93.9	94.7	96.4	97.3	98.3	98.3	100.0
GE 0		43.6	54.2	72.4	80.9	82.6	87.7	90.6	92.0	93.9	94.7	96.4	97.3	98.3	98.3	100.0

TOTAL NUMBER OF OBSERVATIONS: 413

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 105420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 76-85
MONTH: DEC HOURS(LST): 0900-1100

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		11.9	13.7	17.4	18.4	19.0	19.3	19.5	19.5	19.5	19.5	19.5	19.5	20.0	20.2	20.5
GE 20000		13.8	15.8	20.0	21.0	21.6	22.4	22.6	22.6	22.6	22.6	22.6	22.6	23.1	23.3	23.6
GE 18000		13.8	15.8	20.0	21.0	21.6	22.4	22.6	22.6	22.6	22.6	22.6	22.6	23.1	23.3	23.6
GE 16000		14.0	15.9	20.2	21.1	21.8	22.6	22.8	22.8	22.8	22.8	22.8	22.8	23.3	23.4	23.7
GE 14000		14.8	16.7	21.0	22.0	22.6	23.4	23.6	23.6	23.6	23.6	23.6	23.6	24.1	24.2	24.6
GE 12000		15.1	17.1	21.5	22.4	23.1	23.9	24.1	24.1	24.1	24.1	24.1	24.1	24.6	24.7	25.0
GE 10000		16.1	18.5	23.3	24.2	24.9	26.0	26.2	26.2	26.2	26.2	26.2	26.2	26.7	26.8	27.2
GE 9000		16.7	19.2	24.6	25.5	26.2	27.3	27.5	27.5	27.5	27.5	27.5	27.5	28.0	28.1	28.5
GE 8000		20.0	22.6	28.6	29.8	30.4	31.5	31.7	31.7	31.7	31.7	31.7	31.7	32.2	32.4	32.7
GE 7000		20.7	23.3	30.1	31.2	31.9	33.0	33.2	33.2	33.3	33.5	33.5	33.5	34.0	34.1	34.5
GE 6000		20.8	23.4	30.2	31.5	32.2	33.3	33.5	33.5	33.7	33.8	33.8	33.8	34.3	34.5	34.8
GE 5000		23.3	26.2	33.0	34.5	35.3	36.4	36.6	36.6	36.7	36.9	36.9	36.9	37.4	37.6	37.9
GE 4500		24.9	27.8	35.0	36.7	37.4	38.7	39.0	39.0	39.2	39.3	39.3	39.3	39.8	40.0	40.3
GE 4000		28.3	31.9	39.5	41.3	42.0	43.3	43.6	43.6	43.9	44.2	44.2	44.2	44.7	44.9	45.2
GE 3500		30.9	34.5	43.4	45.2	45.9	47.5	47.8	47.8	48.1	48.5	48.5	48.5	48.9	49.1	49.4
GE 3000		35.1	39.2	49.6	52.4	53.0	55.3	55.9	55.9	56.3	56.6	56.6	56.6	57.1	57.2	57.6
GE 2500		37.4	41.5	52.8	55.9	56.6	58.9	60.0	60.0	60.3	60.7	60.7	60.7	61.1	61.3	61.6
GE 2000		41.3	46.8	60.2	64.6	65.2	67.6	69.6	69.6	70.1	70.6	70.6	70.7	71.2	71.4	71.7
GE 1800		42.8	48.8	62.4	67.3	68.0	70.6	72.7	72.7	73.2	73.7	73.7	73.8	74.3	74.5	74.8
GE 1500		44.6	51.1	66.0	71.2	71.9	74.6	76.9	76.9	77.4	77.9	77.9	78.0	78.5	78.7	79.0
GE 1200		45.5	52.7	69.3	75.1	75.8	79.0	81.6	81.6	82.1	82.8	82.8	82.9	83.4	83.6	83.9
GE 1000		46.0	53.3	71.2	77.1	77.7	81.6	84.6	84.6	85.2	86.0	86.0	86.2	86.7	86.8	87.2
GE 900		46.0	53.7	72.5	78.4	79.0	82.9	86.2	86.2	86.8	87.6	87.6	87.8	88.3	88.5	88.8
GE 800		46.2	54.0	73.0	79.5	80.2	84.9	88.3	88.3	89.1	90.1	90.1	90.2	90.7	90.9	91.2
GE 700		46.2	54.0	73.5	80.2	81.1	86.2	89.6	89.6	90.9	92.0	92.0	92.4	92.8	93.0	93.3
GE 600		46.2	54.0	73.5	80.7	82.0	87.5	90.9	91.1	92.5	93.8	93.8	94.1	94.6	94.8	95.1
GE 500		46.2	54.0	73.7	80.8	82.1	87.6	91.1	91.2	93.2	95.0	95.0	95.4	95.9	96.1	96.6
GE 400		46.2	54.0	73.7	80.8	82.1	87.6	91.2	91.4	93.3	95.1	95.1	95.6	96.1	96.3	97.1
GE 300		46.2	54.0	73.7	80.8	82.1	87.6	91.2	91.4	93.8	95.9	95.9	96.7	97.2	97.4	99.5
GE 200		46.2	54.0	73.7	80.8	82.1	87.6	91.2	91.4	93.8	95.9	95.9	97.1	97.7	97.9	100.0
GE 100		46.2	54.0	73.7	80.8	82.1	87.6	91.2	91.4	93.8	95.9	95.9	97.1	97.7	97.9	100.0
GE 0		46.2	54.0	73.7	80.8	82.1	87.6	91.2	91.4	93.8	95.9	95.9	97.1	97.7	97.9	100.0

TOTAL NUMBER OF OBSERVATIONS: 615

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 76-85
MONTH: DEC HOURS(LST): 1200-1400

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		15.4	16.3	19.2	20.0	20.2	20.2	20.4	20.5	20.5	20.5	20.5	20.5	20.9	21.2	21.3
GE 20000		19.2	20.0	23.5	24.6	25.1	25.3	25.5	25.6	25.6	25.6	25.6	25.6	25.9	26.3	26.4
GE 18000		19.2	20.0	23.5	24.6	25.1	25.3	25.5	25.6	25.6	25.6	25.6	25.6	25.9	26.3	26.4
GE 16000		19.7	20.5	24.0	25.1	25.6	25.8	25.9	26.1	26.1	26.1	26.1	26.1	26.4	26.8	26.9
GE 14000		20.4	21.2	24.6	25.8	26.3	26.4	26.6	26.8	26.8	26.8	26.8	26.8	27.1	27.4	27.6
GE 12000		21.7	22.5	25.9	27.3	27.8	27.9	28.1	28.2	28.2	28.2	28.2	28.2	28.6	28.9	29.1
GE 10000		23.6	24.5	28.1	29.4	29.9	30.0	30.2	30.4	30.4	30.4	30.4	30.4	30.7	31.0	31.2
GE 9000		25.1	26.1	29.7	31.0	31.5	31.7	31.9	32.0	32.0	32.0	32.0	32.0	32.3	32.7	32.8
GE 8000		28.4	29.4	33.0	35.1	35.6	35.8	36.0	36.1	36.1	36.1	36.1	36.1	36.5	36.8	36.9
GE 7000		30.2	31.4	36.6	38.3	38.8	38.9	39.1	39.4	39.7	39.7	39.7	39.7	40.1	40.4	40.6
GE 6000		30.7	31.9	37.1	38.8	39.2	39.4	39.6	39.9	40.2	40.2	40.2	40.2	40.6	40.9	41.2
GE 5000		34.2	35.3	41.1	42.7	43.2	43.5	43.7	44.0	44.3	44.3	44.3	44.3	44.7	45.0	45.2
GE 4500		35.0	36.3	42.4	44.0	44.5	45.0	45.2	45.5	45.8	45.8	45.8	45.8	46.1	46.5	46.6
GE 4000		40.1	41.7	48.1	49.9	50.4	50.9	51.1	51.4	51.9	51.9	51.9	51.9	52.2	52.5	52.7
GE 3500		42.0	43.7	50.4	52.7	53.2	53.7	53.9	54.2	54.7	54.7	54.7	54.7	55.0	55.3	55.5
GE 3000		47.1	48.8	57.0	59.6	60.1	60.6	61.1	61.4	61.9	61.9	61.9	61.9	62.2	62.6	62.7
GE 2500		49.4	51.2	60.1	62.7	63.5	64.7	65.2	65.5	66.0	66.0	66.0	66.0	66.3	66.7	66.8
GE 2000		51.9	54.0	64.4	67.3	68.1	69.5	70.0	70.3	70.9	70.9	70.9	70.9	71.3	71.6	71.8
GE 1800		52.9	55.5	66.5	70.1	70.9	72.6	73.1	73.4	74.1	74.1	74.1	74.1	74.5	74.7	74.9
GE 1500		54.8	57.5	69.6	73.4	74.2	76.2	76.8	77.2	78.0	78.0	78.0	78.0	78.5	78.8	79.0
GE 1200		57.0	59.9	75.4	79.6	80.6	82.9	83.7	84.1	85.1	85.1	85.1	85.2	85.7	86.0	86.2
GE 1000		57.1	60.6	77.7	82.4	83.4	85.9	86.9	87.4	88.7	88.7	88.7	88.8	89.3	89.7	89.8
GE 900		57.5	61.1	78.5	83.3	84.2	86.7	88.0	88.5	89.8	89.8	89.8	90.0	90.5	90.8	91.0
GE 800		57.8	61.4	78.8	84.1	85.1	87.7	89.0	89.5	91.3	91.3	91.3	91.5	92.0	92.3	92.4
GE 700		57.8	61.4	79.0	84.6	85.6	89.2	90.6	91.1	93.3	93.3	93.3	93.4	93.9	94.3	94.4
GE 600		57.8	61.4	79.0	84.7	85.7	89.7	91.3	92.0	94.3	94.3	94.3	94.6	95.1	95.4	95.5
GE 500		57.8	61.4	79.0	84.7	85.7	89.8	91.6	92.3	95.2	95.4	95.4	95.7	96.4	96.7	96.9
GE 400		57.8	61.4	79.0	84.7	85.7	89.8	91.8	92.6	95.9	96.1	96.1	96.7	97.4	97.9	98.0
GE 300		57.8	61.4	79.0	84.7	85.7	89.8	92.1	92.9	96.4	96.7	96.7	98.2	98.9	99.3	99.4
GE 200		57.8	61.4	79.0	84.7	85.7	89.8	92.1	92.9	96.4	96.7	96.7	98.2	99.0	99.5	99.8
GE 100		57.8	61.4	79.0	84.7	85.7	89.8	92.1	92.9	96.4	96.7	96.7	98.2	99.0	99.5	100.0
GE 0		57.8	61.4	79.0	84.7	85.7	89.8	92.1	92.9	96.4	96.7	96.7	98.2	99.0	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS: 609

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 76-85
MONTH: DEC HOURS(LST): 1500-1700

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		16.1	16.8	19.3	20.5	20.5	20.8	21.0	21.0	21.1	21.1	21.1	21.1	21.1	21.1	21.1
GE 20000		19.8	20.5	23.2	24.3	24.7	25.2	25.3	25.3	25.5	25.5	25.5	25.5	25.5	25.5	25.5
GE 18000		19.8	20.5	23.2	24.3	24.7	25.2	25.3	25.3	25.5	25.5	25.5	25.5	25.5	25.5	25.5
GE 16000		19.8	20.5	23.2	24.3	24.7	25.2	25.3	25.3	25.5	25.5	25.5	25.5	25.5	25.5	25.5
GE 14000		20.1	20.8	23.5	24.7	25.0	25.5	25.7	25.7	25.8	25.8	25.8	25.8	25.8	25.8	25.8
GE 12000		20.6	21.3	24.0	25.2	25.5	26.0	26.2	26.2	26.3	26.3	26.3	26.3	26.3	26.3	26.3
GE 10000		21.5	22.5	25.3	26.5	26.8	27.5	27.7	27.7	27.9	27.9	27.9	27.9	27.9	27.9	27.9
GE 9000		23.5	24.5	27.3	28.7	29.0	29.7	29.9	29.9	30.0	30.0	30.0	30.0	30.0	30.0	30.0
GE 8000		27.5	28.9	32.2	33.7	34.1	34.7	34.9	34.9	35.1	35.1	35.2	35.2	35.2	35.2	35.2
GE 7000		30.0	31.4	35.7	37.4	37.8	38.4	38.6	38.6	38.9	38.9	39.1	39.1	39.1	39.1	39.1
GE 6000		30.2	31.5	36.2	37.8	38.1	38.8	38.9	38.9	39.3	39.3	39.4	39.4	39.4	39.4	39.4
GE 5000		32.6	33.9	38.9	40.5	41.1	41.9	42.3	42.3	42.6	42.6	42.8	42.8	42.8	42.8	42.8
GE 4500		34.2	35.6	40.6	42.4	42.8	43.6	44.0	44.0	44.3	44.3	44.5	44.5	44.5	44.5	44.5
GE 4000		38.6	40.3	46.3	48.3	48.7	49.7	50.0	50.0	50.3	50.3	50.5	50.5	50.5	50.5	50.5
GE 3500		40.4	42.1	48.7	51.0	51.3	52.5	53.0	53.0	53.4	53.4	53.6	53.6	53.6	53.6	53.6
GE 3000		46.6	48.3	56.0	58.7	59.1	60.4	60.9	60.9	61.2	61.2	61.4	61.4	61.4	61.4	61.4
GE 2500		51.7	53.5	61.7	64.9	65.3	66.8	67.3	67.3	67.6	67.6	67.8	67.8	68.1	68.1	68.1
GE 2000		54.9	57.4	66.9	70.6	71.0	72.8	73.7	73.7	74.0	74.2	74.5	74.7	75.0	75.0	75.0
GE 1800		55.5	58.6	68.6	72.7	73.0	74.8	75.7	75.7	76.0	76.2	76.5	76.7	77.0	77.0	77.0
GE 1500		57.0	60.6	72.5	77.0	77.5	80.0	80.9	80.9	81.7	81.9	82.2	82.7	83.1	83.1	83.1
GE 1200		58.1	62.4	75.8	81.2	81.7	84.6	85.4	85.4	86.7	86.9	87.2	87.8	88.1	88.1	88.1
GE 1000		58.1	62.8	76.5	82.7	83.2	86.4	87.6	87.6	89.3	89.6	89.9	90.4	90.8	90.8	90.8
GE 900		58.6	63.6	77.3	84.1	84.7	88.6	89.8	89.8	91.6	91.9	92.3	92.8	93.1	93.1	93.1
GE 800		58.7	63.8	77.7	84.4	85.1	89.3	90.4	90.6	92.4	92.8	93.1	94.0	94.3	94.3	94.3
GE 700		58.7	63.8	77.7	84.4	85.1	89.4	90.6	90.9	92.8	93.1	93.5	94.5	94.8	94.8	94.8
GE 600		58.7	63.8	77.7	84.4	85.2	89.9	91.3	91.9	93.8	94.1	94.5	95.5	95.8	95.8	95.8
GE 500		58.7	63.8	77.7	84.6	85.4	90.4	91.9	92.6	94.8	95.1	95.5	96.5	96.8	96.8	96.8
GE 400		58.7	63.8	77.7	84.6	85.4	90.4	91.9	92.6	95.1	95.8	96.1	97.5	98.0	98.0	98.2
GE 300		58.7	63.8	77.7	84.6	85.4	90.4	91.9	92.8	95.3	96.0	96.3	98.2	98.7	98.7	98.8
GE 200		58.7	63.8	77.7	84.6	85.4	90.4	91.9	92.8	95.3	96.1	96.8	98.7	99.7	99.8	100.0
GE 100		58.7	63.8	77.7	84.6	85.4	90.4	91.9	92.8	95.3	96.1	96.8	98.7	99.7	99.8	100.0
GE 0		58.7	63.8	77.7	84.6	85.4	90.4	91.9	92.8	95.3	96.1	96.8	98.7	99.7	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS: 596

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HAHAU AAF GERMANY

PERIOD OF RECORD: 76-85
MONTH: DEC HOURS(LST): 1800-2000

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		15.7	17.7	24.0	27.1	27.1	28.5	28.5	28.5	28.7	28.7	28.7	28.7	29.0	29.0	29.0
GE 20000		17.7	20.2	26.5	29.8	29.8	31.2	31.2	31.5	31.8	31.8	31.8	31.8	32.0	32.0	32.0
GE 18000		18.0	20.4	26.8	30.1	30.1	31.5	31.5	31.8	32.0	32.0	32.0	32.0	32.3	32.3	32.3
GE 16000		18.0	20.4	26.8	30.1	30.1	31.5	31.5	31.8	32.0	32.0	32.0	32.0	32.3	32.3	32.3
GE 14000		18.0	20.4	26.8	30.1	30.1	31.5	31.5	31.8	32.0	32.0	32.0	32.0	32.3	32.3	32.3
GE 12000		18.0	20.4	26.8	30.1	30.1	31.5	31.5	31.8	32.0	32.0	32.0	32.0	32.3	32.3	32.3
GE 10000		20.2	23.5	30.4	34.0	34.0	35.4	35.4	35.6	35.9	35.9	35.9	35.9	36.2	36.2	36.2
GE 9000		21.0	24.3	31.2	35.1	35.1	36.5	36.5	36.7	37.0	37.0	37.0	37.0	37.3	37.3	37.3
GE 8000		23.5	26.8	33.7	38.4	38.4	39.8	39.8	40.1	40.3	40.3	40.3	40.3	40.6	40.6	40.6
GE 7000		24.3	27.6	34.8	39.5	39.5	41.2	41.2	41.4	41.7	41.7	41.7	41.7	42.0	42.0	42.0
GE 6000		25.1	28.5	35.9	40.6	40.6	42.3	42.3	42.5	42.8	42.8	42.8	42.8	43.1	43.1	43.1
GE 5000		26.5	29.8	37.6	42.5	42.5	44.5	44.5	44.8	45.0	45.0	45.0	45.0	45.3	45.3	45.3
GE 4500		28.5	31.8	40.1	45.3	45.3	47.2	47.5	47.8	48.1	48.1	48.1	48.1	48.3	48.3	48.3
GE 4000		32.9	36.2	44.8	50.0	50.0	52.2	52.5	52.8	53.0	53.0	53.0	53.0	53.3	53.3	53.3
GE 3500		36.2	39.5	48.6	54.4	54.4	56.6	56.9	57.2	57.5	57.5	57.5	57.5	57.7	57.7	57.7
GE 3000		40.3	43.9	53.9	59.7	59.7	61.9	62.2	62.4	62.7	62.7	62.7	62.7	63.0	63.0	63.0
GE 2500		44.8	48.3	59.4	65.5	65.7	68.0	68.8	69.1	69.3	69.3	69.3	69.3	69.9	69.9	69.9
GE 2000		48.9	52.5	64.6	71.8	72.7	75.7	77.1	77.3	77.6	77.6	77.6	77.6	78.2	78.2	78.2
GE 1800		49.7	53.3	66.3	74.0	75.1	78.2	80.1	80.4	80.7	80.7	80.7	80.7	81.2	81.2	81.2
GE 1500		50.8	55.0	69.3	78.2	79.3	82.3	84.3	84.5	84.8	84.8	84.8	85.1	85.9	85.9	85.9
GE 1200		52.5	56.6	72.1	81.8	82.9	86.5	88.7	89.0	89.2	89.2	89.2	89.5	90.3	90.3	90.3
GE 1000		52.5	56.6	72.1	82.3	83.1	86.7	89.0	89.5	90.1	90.3	90.3	90.6	91.4	91.4	91.4
GE 900		53.3	57.5	73.5	83.7	84.8	88.7	90.9	91.4	92.0	92.3	92.3	92.5	93.4	93.4	93.4
GE 800		53.3	57.5	74.3	84.5	85.6	89.5	91.7	92.3	92.8	93.1	93.1	93.9	94.8	94.8	94.8
GE 700		53.3	57.5	74.6	84.8	85.9	89.8	92.0	92.5	93.1	93.4	93.4	94.2	95.0	95.0	95.0
GE 600		53.3	57.5	74.6	84.8	85.9	90.1	93.1	93.6	94.2	94.5	94.5	95.3	96.1	96.1	96.1
GE 500		53.3	57.5	74.6	84.8	85.9	90.1	93.1	93.6	94.5	95.0	95.0	95.9	96.7	96.7	96.7
GE 400		53.3	57.5	74.6	84.8	85.9	90.1	93.1	93.6	95.3	95.9	95.9	96.7	97.5	97.5	97.5
GE 300		53.3	57.5	74.6	84.8	85.9	90.1	93.1	93.6	95.3	95.9	96.1	97.5	98.6	98.6	98.6
GE 200		53.3	57.5	74.6	84.8	85.9	90.1	93.1	93.6	95.3	96.7	97.0	98.3	100.0	100.0	100.0
GE 100		53.3	57.5	74.6	84.8	85.9	90.1	93.1	93.6	95.3	96.7	97.0	98.3	100.0	100.0	100.0
GE CI		53.3	57.5	74.6	84.8	85.9	90.1	93.1	93.6	95.3	96.7	97.0	98.3	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 362

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 76-77,80-85
MONTH: DEC HOURS(LST): 2100-2300

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		8.5	9.4	16.2	18.8	19.7	22.2	23.1	23.1	23.1	23.1	23.1	23.1	24.8	24.8	25.6
GE 20000		10.3	12.0	20.5	23.9	24.8	27.4	28.2	28.2	28.2	28.2	28.2	28.2	29.9	29.9	30.8
GE 18000		10.3	12.0	20.5	24.8	25.6	28.2	29.1	29.1	29.1	29.1	29.1	29.1	30.8	30.8	31.6
GE 16000		10.3	12.0	20.5	24.8	25.6	28.2	29.1	29.1	29.1	29.1	29.1	29.1	30.8	30.8	31.6
GE 14000		10.3	12.0	20.5	24.8	25.6	28.2	29.1	29.1	29.1	29.1	29.1	29.1	30.8	30.8	31.6
GE 12000		10.3	12.0	20.5	24.8	25.6	28.2	29.1	29.1	29.1	29.1	29.1	29.1	30.8	30.8	31.6
GE 10000		12.8	14.5	23.9	28.2	29.1	31.6	32.5	32.5	32.5	32.5	32.5	32.5	34.2	34.2	35.0
GE 9000		12.8	14.5	23.9	28.2	29.1	31.6	32.5	32.5	32.5	32.5	32.5	32.5	34.2	34.2	35.0
GE 8000		14.5	16.2	26.5	30.8	31.6	34.2	35.0	35.0	35.0	35.0	35.0	35.0	36.8	36.8	37.6
GE 7000		14.5	16.2	26.5	30.8	31.6	34.2	35.0	35.0	35.0	35.0	35.0	35.0	36.8	36.8	37.6
GE 6000		15.4	17.1	27.4	31.6	32.5	35.0	35.9	35.9	35.9	35.9	35.9	35.9	37.6	37.6	38.5
GE 5000		17.9	21.4	32.5	36.8	37.6	40.2	41.0	41.0	41.0	41.0	41.0	41.0	42.7	42.7	43.6
GE 4500		17.9	21.4	32.5	36.8	37.6	40.2	41.0	41.0	41.0	41.0	41.0	41.0	42.7	42.7	43.6
GE 4000		19.7	25.6	36.8	41.0	41.9	47.0	47.9	47.9	47.9	48.7	48.7	48.7	50.4	50.4	51.3
GE 3500		23.9	29.9	41.0	45.3	46.2	51.3	52.1	52.1	52.1	53.0	53.0	53.0	54.7	54.7	55.6
GE 3000		27.4	33.3	44.4	48.7	49.6	55.6	56.4	56.4	56.4	57.3	57.3	57.3	59.0	59.0	59.8
GE 2500		34.2	40.2	52.1	56.4	57.3	63.2	64.1	64.1	64.1	65.0	65.0	65.0	66.7	66.7	67.5
GE 2000		38.5	44.4	58.1	62.4	64.1	70.1	70.9	70.9	70.9	71.8	71.8	71.8	73.5	73.5	74.4
GE 1800		39.3	45.3	60.7	67.5	70.1	76.1	76.9	76.9	78.6	79.5	79.5	79.5	81.2	81.2	82.1
GE 1500		41.0	47.0	63.2	71.8	74.4	80.3	81.2	81.2	82.9	83.8	83.8	83.8	85.5	85.5	86.3
GE 1200		41.9	48.7	65.8	74.4	76.9	82.9	83.8	83.8	85.5	86.3	86.3	86.3	88.0	88.0	88.9
GE 1000		41.9	48.7	65.8	74.4	75.9	82.9	83.8	83.8	85.5	88.0	88.0	88.0	89.7	89.7	90.6
GE 900		43.6	50.4	70.9	79.5	82.1	88.0	88.9	88.9	90.6	93.2	93.2	93.2	94.9	94.9	95.7
GE 800		43.6	50.4	72.6	81.2	83.8	89.7	90.6	90.6	92.3	94.9	94.9	94.9	96.6	96.6	97.4
GE 700		43.6	50.4	72.6	81.2	83.8	89.7	90.6	90.6	92.3	94.9	94.9	94.9	96.6	96.6	97.4
GE 600		43.6	50.4	72.6	81.2	83.8	89.7	90.6	90.6	92.3	94.9	94.9	94.9	96.6	96.6	97.4
GE 500		43.6	50.4	72.6	81.2	83.8	89.7	90.6	90.6	92.3	96.6	96.6	96.6	98.3	98.3	99.1
GE 400		43.6	50.4	72.6	81.2	83.8	89.7	90.6	90.6	92.3	96.6	96.6	96.6	98.3	98.3	99.1
GE 300		43.6	50.4	72.6	81.2	83.8	89.7	90.6	90.6	92.3	96.6	96.6	97.4	99.1	99.1	100.0
GE 200		43.6	50.4	72.6	81.2	83.8	89.7	90.6	90.6	92.3	96.6	96.6	97.4	99.1	99.1	100.0
GE 100		43.6	50.4	72.6	81.2	83.8	89.7	90.6	90.6	92.3	96.6	96.6	97.4	99.1	99.1	100.0
GE 0		43.6	50.4	72.6	81.2	83.8	89.7	90.6	90.6	92.3	96.6	96.6	97.4	99.1	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS: 117

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HAHAU AAF GERMANY

PERIOD OF RECORD: 76-85
MONTH: DEC HOURS(LST): ALL

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		13.6	14.9	18.8	20.1	20.5	21.0	21.2	21.3	21.3	21.3	21.4	21.4	21.8	21.9	22.1
GE 20000		15.1	17.5	21.9	23.5	24.0	24.8	25.0	25.1	25.1	25.1	25.2	25.3	25.6	25.7	25.9
GE 18000		15.1	17.6	22.0	23.6	24.1	24.9	25.1	25.1	25.2	25.2	25.3	25.3	25.7	25.8	26.0
GE 16000		15.3	17.7	22.1	23.7	24.2	25.0	25.2	25.3	25.4	25.4	25.4	25.5	25.8	26.0	26.1
GE 14000		16.7	18.1	22.5	24.1	24.6	25.4	25.6	25.7	25.8	25.8	25.8	25.9	26.3	26.4	26.5
GE 12000		17.1	18.6	23.0	24.7	25.2	26.0	26.2	26.3	26.3	26.3	26.4	26.4	26.8	26.9	27.1
GE 10000		19.5	20.3	25.1	26.9	27.3	28.2	28.4	28.5	28.6	28.6	28.7	28.7	29.1	29.2	29.3
GE 9000		19.6	21.5	26.5	28.3	28.8	29.7	29.9	30.0	30.1	30.1	30.1	30.2	30.5	30.6	30.8
GE 8000		22.7	24.7	30.3	32.2	32.7	33.6	33.8	33.9	34.0	34.0	34.1	34.1	34.5	34.6	34.8
GE 7000		24.1	26.2	32.6	34.7	35.2	36.1	36.3	36.4	36.7	36.7	36.8	36.8	37.2	37.4	37.6
GE 6000		24.4	26.5	33.0	35.1	35.6	36.5	36.8	36.9	37.1	37.1	37.2	37.3	37.7	37.8	37.9
GE 5000		27.0	29.4	36.2	38.4	39.9	40.0	40.2	40.4	40.6	40.7	40.8	40.8	41.2	41.3	41.5
GE 4500		28.6	31.1	38.1	40.4	41.0	42.1	42.4	42.6	42.8	42.8	43.0	43.0	43.4	43.5	43.7
GE 4000		32.7	35.7	43.3	45.6	46.2	47.6	47.9	48.0	48.3	48.5	48.6	48.6	49.0	49.2	49.3
GE 3500		34.9	37.9	46.1	48.7	49.3	50.9	51.3	51.4	51.7	51.8	52.0	52.0	52.4	52.5	52.7
GE 3000		39.9	43.1	52.5	55.6	56.2	58.0	58.6	58.7	59.1	59.2	59.3	59.4	59.8	59.9	60.0
GE 2500		43.4	46.9	57.0	60.4	61.1	63.1	63.9	64.0	64.4	64.5	64.6	64.7	65.2	65.3	65.4
GE 2000		47.0	51.2	62.9	67.2	68.1	70.5	71.6	71.8	72.2	72.5	72.6	72.8	73.3	73.4	73.5
GE 1800		48.2	52.7	65.0	69.9	70.8	73.3	74.6	74.7	75.2	75.5	75.6	75.8	76.3	76.4	76.5
GE 1500		49.8	54.8	68.5	73.9	74.9	77.7	79.0	79.2	79.8	80.1	80.2	80.5	81.1	81.2	81.3
GE 1200		51.1	56.6	72.1	78.1	79.1	82.4	83.9	84.2	85.1	85.4	85.5	85.8	86.4	86.5	86.7
GE 1000		51.3	57.1	73.5	80.0	91.0	84.5	86.2	86.6	87.7	88.2	88.3	88.6	89.2	89.3	89.5
GE 900		51.8	57.8	74.7	81.4	82.4	86.2	88.1	88.5	89.6	90.1	90.3	90.6	91.2	91.3	91.4
GE 800		52.0	58.1	75.3	82.3	83.3	87.4	89.3	89.7	91.0	91.6	91.7	92.2	92.8	92.9	93.0
GE 700		52.0	58.1	75.5	82.7	83.8	88.2	90.2	90.6	92.1	92.7	92.9	93.4	94.0	94.1	94.2
GE 600		52.0	58.1	75.6	83.0	84.2	88.9	91.2	91.8	93.4	94.0	94.2	94.7	95.3	95.4	95.6
GE 500		52.0	58.1	75.6	83.1	84.3	89.1	91.5	92.1	94.1	94.9	95.1	95.8	96.3	96.5	96.7
GE 400		52.0	58.1	75.6	83.1	84.3	89.1	91.6	92.2	94.5	95.4	95.6	96.3	97.0	97.1	97.5
GE 300		52.0	58.1	75.6	83.1	84.3	89.2	91.7	92.4	94.9	95.9	96.2	97.4	98.1	98.3	99.0
GE 200		52.0	58.1	75.6	83.1	84.3	89.2	91.7	92.4	94.9	96.1	96.5	97.9	98.9	99.0	99.9
GE 100		52.0	58.1	75.6	83.1	84.3	89.2	91.7	92.4	94.9	96.1	96.5	97.9	98.9	99.1	100.0
GE 0		52.0	58.1	75.6	83.1	84.3	89.2	91.7	92.4	94.9	96.1	96.5	97.9	98.9	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS: 2712

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURPENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY

PERIOD OF RECORD: 76-86
MONTH: ALL HOURS(LST): ALL

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		25.7	26.7	30.7	32.0	32.3	33.1	33.4	33.5	33.8	33.9	33.9	34.0	34.1	34.1	34.1
GE 20000		30.1	31.3	36.0	37.6	37.9	38.8	39.1	39.3	39.6	39.7	39.8	39.8	39.9	39.9	40.0
GE 18000		30.4	31.7	36.5	38.1	38.4	39.3	39.6	39.8	40.1	40.2	40.3	40.3	40.4	40.4	40.5
GE 16000		30.5	31.7	36.5	38.1	38.4	39.3	39.7	39.8	40.2	40.3	40.3	40.4	40.5	40.5	40.6
GE 14000		30.8	32.0	36.9	38.4	38.7	39.7	40.0	40.1	40.5	40.6	40.7	40.7	40.8	40.8	40.9
GE 12000		31.6	32.8	37.8	39.4	39.8	40.7	41.1	41.2	41.6	41.7	41.7	41.8	41.9	41.9	42.0
GE 10000		33.7	35.1	40.6	42.3	42.6	43.6	44.0	44.1	44.6	44.6	44.7	44.7	44.8	44.9	44.9
GE 9000		34.9	36.4	42.2	43.9	44.3	45.3	45.7	45.9	46.3	46.4	46.4	46.5	46.6	46.6	46.7
GE 8000		39.1	40.8	47.2	49.2	49.6	50.7	51.2	51.4	51.9	52.0	52.0	52.1	52.2	52.2	52.3
GE 7000		41.0	42.7	49.7	51.8	52.2	53.4	53.9	54.1	54.6	54.7	54.8	54.9	55.0	55.0	55.1
GE 6000		41.6	43.4	50.5	52.6	53.0	54.2	54.7	54.9	55.5	55.6	55.6	55.7	55.8	55.8	55.9
GE 5000		44.8	46.8	54.4	56.7	57.1	58.4	59.0	59.2	59.8	59.9	60.0	60.0	60.2	60.2	60.3
GE 4500		47.2	49.4	57.4	59.8	60.2	61.6	62.2	62.4	63.0	63.1	63.2	63.3	63.4	63.4	63.5
GE 4000		52.2	54.5	63.3	66.0	66.5	68.1	68.8	69.0	69.7	69.8	69.9	69.9	70.1	70.1	70.2
GE 3500		55.7	58.2	67.6	70.6	71.1	72.7	73.5	73.7	74.4	74.5	74.6	74.7	74.8	74.8	74.9
GE 3000		60.4	63.2	73.6	76.9	77.6	79.4	80.2	80.5	81.2	81.3	81.4	81.5	81.7	81.7	81.8
GE 2500		62.3	65.3	76.2	79.7	80.4	82.4	83.3	83.6	84.3	84.5	84.6	84.7	84.8	84.8	84.9
GE 2000		64.7	68.0	79.8	83.7	84.5	86.7	87.7	88.1	88.9	89.1	89.2	89.3	89.5	89.5	89.6
GE 1800		65.0	68.4	80.4	84.4	85.2	87.5	88.5	88.9	89.8	90.0	90.1	90.2	90.3	90.4	90.4
GE 1500		65.8	69.4	81.9	86.3	87.1	89.6	90.7	91.1	92.1	92.3	92.4	92.6	92.7	92.7	92.8
GE 1200		66.3	70.0	83.2	87.8	88.7	91.5	92.7	93.1	94.2	94.4	94.6	94.7	94.8	94.9	94.9
GE 1000		66.5	70.2	83.8	88.5	89.5	92.4	93.7	94.2	95.3	95.6	95.8	95.9	96.1	96.1	96.2
GE 900		66.6	70.3	84.0	88.8	89.8	92.8	94.1	94.6	95.8	96.1	96.3	96.4	96.6	96.6	96.7
GE 800		66.6	70.3	84.2	89.1	90.0	93.1	94.5	95.0	96.3	96.6	96.8	96.9	97.1	97.2	97.2
GE 700		66.6	70.3	84.2	89.2	90.1	93.3	94.8	95.3	96.7	97.0	97.1	97.3	97.5	97.6	97.6
GE 600		66.6	70.3	84.2	89.2	90.2	93.5	95.0	95.5	97.0	97.3	97.5	97.7	98.0	98.0	98.1
GE 500		66.6	70.3	84.3	89.3	90.3	93.6	95.2	95.8	97.3	97.7	97.9	98.2	98.5	98.5	98.6
GE 400		66.6	70.4	84.3	89.3	90.3	93.7	95.3	95.9	97.5	98.0	98.2	98.5	98.8	98.9	99.0
GE 300		66.6	70.4	84.3	89.3	90.3	93.7	95.3	96.0	97.6	98.1	98.3	98.8	99.1	99.2	99.4
GE 200		66.6	70.4	84.3	89.3	90.3	93.7	95.3	96.0	97.6	98.1	98.4	98.9	99.3	99.4	99.7
GE 100		66.6	70.4	84.3	89.3	90.3	93.7	95.3	96.0	97.6	98.1	98.4	98.9	99.3	99.5	99.9
GE 0		66.6	70.4	84.3	89.3	90.3	93.7	95.3	96.0	97.6	98.1	98.4	98.9	99.3	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS: 39523

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PSYCHROMETRIC SUMMARIES

PART 4

In this section are presented various summaries of dry and wet-bulb temperatures, dewpoints, and relative humidity. The order and manner of representations follows:

1. Cumulative percentage frequency of occurrence--Derived from available hourly observations and presented by month and annual for all years combined. These tabulations provide the cumulative percentage frequency to tenths, of temperature by 5-degree Fahrenheit increments, plus mean temperature, standard deviations, and total number of observations in three separate tables as follows:

4

   a. Daily HIGH temperatures (for available observations)
   b. Daily LOW temperatures (for available observations)
   c. Daily mean temperatures (high + low temperatures divided by two)

2. Bivariate percentage frequency distribution and computations of dry-bulb versus wet-bulb temperature.

   This summary has been temporarily discontinued for the LISOCS pending the advent of RUSSWO-2 in mid 1986.

3. Means and standard deviations--These tabulations are derived from available hourly observations and present the mean, standard deviation, and total number of observations for the 3-hour groups, by month and annual and again at the bottom for all hours combine. Summaries for all years combined are presented in the following three tables; DRY-BULB TEMPERATURE, WET-BULB TEMPERATURE, AND DEWPOINT TEMPERATURE.

4. Cumulative percentage frequency of occurrence of relative humidity--This summary is derived from hourly observations and presents the cumulative percentage frequency of occurrence of relative humidity by increments of 10 percent classes, plus the mean relative humidity and total number of observations presented by month and available 3-hour groups.

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

DAILY TEMPERATURES

106420 HANAU AAF GERMANY — 56-86 YEARS

STATION — STATION NAME

MAXIMUM

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS)

TEMP (°F)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
95						.1	2.1	.3					.2
90					.5	2.4	6.8	3.0					1.1
85				.4	1.5	8.6	17.6	10.5	1.3				3.3
80				1.2	7.1	21.1	33.9	26.0	6.8	.5			8.1
75			.2	3.6	17.2	40.0	48.2	49.1	19.4	2.7			15.1
70			.8	11.8	34.5	57.6	67.7	70.5	42.7	7.7			24.6
65			4.9	22.8	53.1	76.3	86.4	89.1	64.6	18.7	.4		34.9
60		1.5	11.3	39.4	74.5	91.4	97.8	99.1	88.7	39.0	3.5	.4	45.9
55	1.1	4.4	26.0	58.2	91.2	98.3	99.5	100.0	97.7	63.6	12.5	2.9	55.1
50	7.0	15.2	47.3	76.6	98.4	99.6	99.8		99.9	86.2	31.3	10.6	64.8
45	22.0	33.9	71.7	92.6	99.9	100.0	100.0		100.0	96.6	59.1	27.3	75.7
40	42.6	58.8	87.7	99.0	100.0					99.4	81.4	48.4	85.1
35	69.6	84.5	96.7	100.0						100.0	94.4	75.5	93.5
30	84.8	96.2	99.2								99.7	89.9	97.5
25	92.7	98.8	99.9								100.0	97.3	99.1
20	97.2	99.7	100.0									99.4	99.7
15	99.4	100.0										99.9	99.9
10	100.0											100.0	100.0
MEAN	37.8	41.7	49.3	57.3	65.9	71.8	75.0	74.4	68.1	57.7	46.0	39.7	57.1
S. D.	8.327	7.460	8.405	9.429	8.757	9.021	9.253	7.735	7.336	7.893	7.117	7.750	15.639
TOTAL OBS.	810	731	840	813	821	806	809	799	777	818	778	785	9519

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

DAILY TEMPERATURES

106820 HANAU AAF GERMANY 56-86

STATION STATION NAME YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS)

MINIMUM

TEMP (°F)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
≥ 80					.1		.1	.1					.0
≥ 75						.1	.2						.1
≥ 70					.2	.2	1.2						.2
≥ 65					.5	1.4	6.8	1.9	.6				.9
≥ 60				.1	3.3	16.3	31.4	26.0	6.9	.7			7.1
≥ 55			.7	2.0	14.5	47.0	68.0	63.7	28.1	6.6	1.0	.1	19.4
≥ 50	.1	.7	3.2	12.8	44.3	80.0	93.2	90.7	60.5	24.8	4.2	1.4	34.9
≥ 45	3.3	3.8	11.8	30.3	72.7	95.0	98.8	98.5	83.8	46.9	15.1	7.0	47.6
≥ 40	12.3	13.4	30.4	54.9	92.0	99.5	100.0	99.9	96.4	69.7	38.2	18.5	60.8
≥ 35	36.4	35.7	61.2	85.2	99.4	100.0		100.0	100.0	90.7	67.8	44.3	77.1
≥ 33	46.4	48.4	70.0	92.3	99.8					95.6	77.7	55.5	82.4
≥ 30	62.6	65.9	84.6	97.0	100.0					99.1	88.7	69.9	89.2
≥ 25	75.9	82.1	94.5	99.6						100.0	97.0	81.8	94.4
≥ 20	84.0	91.9	97.9	100.0							99.1	91.0	97.0
≥ 15	91.9	96.3	99.4								100.0	97.1	98.7
≥ 10	96.5	97.8	99.9									99.0	99.4
≥ 5	98.1	99.3	100.0									99.5	99.7
≥ 0	99.5	100.0										100.0	100.0
≥ -5	100.0												100.0
MEAN	29.9	31.3	36.2	41.1	48.3	53.9	56.9	56.0	50.7	43.9	37.5	32.5	43.2
S. D.	9.746	8.162	7.335	6.492	6.156	5.578	5.411	5.111	5.982	6.978	6.889	8.678	11.714
TOTAL OBS.	810	731	840	813	821	806	809	799	777	818	770	785	9579

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

DAILY TEMPERATURES

106420 HANAU AAF GERMANY — 56-86 — MEAN

STATION — STATION NAME — YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS)

TEMP (°F)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
≥ 80					.2	.1	1.7	.4					.2
≥ 75					.6	4.1	11.7	5.4	.1				1.8
≥ 70				.1	3.4	16.5	30.4	22.4	3.6				6.4
≥ 65				2.0	14.1	41.4	55.9	56.3	20.1	2.1			16.1
≥ 60			.5	7.9	35.2	70.5	83.7	86.6	49.4	10.0	.1		28.8
≥ 55		.7	4.2	24.2	65.5	91.4	98.5	99.0	82.8	30.1	3.5	.8	42.0
≥ 50	1.4	3.1	18.9	49.7	89.9	98.9	99.8	100.0	97.3	57.2	12.1	3.7	53.1
≥ 45	9.9	12.2	42.6	72.0	98.3	100.0	100.0		99.7	83.1	36.0	15.3	64.6
≥ 40	29.3	35.3	69.2	92.4	100.0				100.0	98.2	64.8	33.6	77.3
≥ 35	53.3	64.7	89.0	99.8						99.8	87.3	63.4	88.3
≥ 30	75.1	84.8	96.7	100.0						100.0	97.0	80.6	94.6
≥ 25	85.6	94.9	99.4								99.7	92.2	97.7
≥ 20	92.8	98.1	99.8								100.0	97.5	99.0
≥ 15	97.0	99.3	100.0									99.2	99.6
≥ 10	99.3	100.0										99.9	99.9
≥ 5	99.9											100.0	100.0
≥ 0	100.0												100.0
MEAN	34.1	36.8	43.0	49.4	57.4	63.1	66.2	65.4	59.6	51.1	42.1	36.3	50.4
S.D.	8.781	7.325	7.032	7.013	6.415	6.392	6.452	5.336	5.444	6.457	6.599	7.982	13.218
TOTAL OBS.	810	731	840	813	821	806	809	799	777	818	770	785	9579

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

EXTREME VALUES OF MAXIMUM TEMPERATURE
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 106420 STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 56-86

WHOLE DEGREES FAHRENHEIT

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
56										75	50	*55	
57	*54	61	56	73	78	94	*97	*81	*79	*66	*61	*45	*97
58	*45	*63	*65	*67	*83	*86	*84	*88	*82	*69	*56	*50	*88
59	*57	*58	*58	*80	*83	*86	*97	*87	*87	*74	*56	*53	*97
60	*50	*64	*69	*74	*82	*89	*85	*90	*79	*74	*62	*51	*90
61	*51	*61	*71	*80	*75	*88	*86	*87	*86	*71	*59	*61	*88
62	*54	*49	*56	*80	*78	*86	*89	*92	*79	*79	*62	*45	*92
63	*42	*40	*55	*71	*80	*79	*91	*93	*80	*63	*69	*44	*93
64	*41	*53	*59	78	*83	*90	*95	*94	*84	*70	58	*55	*95
65	*52	42	55	68	82	86	87	86	78	69	59	57	87
66	56	61	55	72	84	91	84	96	85	79	59	54	96
67	56	59	61	70	84	93	91	86	81	75	54	53	93
68	50	52	77	87	76	85	92	81	79	72	68	50	92
69	50	54	58	75	90	84	95	88	81	70	61	40	95
70	43	50	58	74	76	89	86	89	80	74	61	50	89
71	54	49	58	79	83	81	95	92	79	74	59	55	95
72	45	54	70	76	79	88	92	90	79	68	56	52	92
73	46	46	68	71	80	93	91	91	89	71	55	*50	93
74	*55	*64	69	73	77	82	84	98	80	53	64	57	98
75	55	53	60	77	78	82	93	93	86	66	55	51	93
76	51	55	64	75	89	93	98	91	78	77	*59	*50	98
77	*53	*57	*69	*69	*84	*93	*91	*86	*80	*77	*64	*48	*93
78	*46	*62	*69	*71	*84	*89	*93	*84	*77	*77	*51	*57	*93
79	*41	*50	*57	*71	*93	*95	*81	*87	*81	*81	*55	*59	*95
80	*48	*57	*66	*81	*79	*88	*90	*86	*82	*68	*61	*50	*90
81	*43	*55	*70	*75	*90	*88	*88	*88	*77	*73	*63	*48	*90
82	*54	*55	*63	*70	*84	*90	*9C	*88	*86	*63	*61	*57	*90
83	*55	*52	*61	*72	*75	*86	*97	*86	*82	*79	*55	*52	*97
84	*46	*46	*57	*72	*73	*84	*95	*86	*73	*70	*55	*48	*95
85	*52	*52	*55	*75	*81	*82	*88	*91	*84	*81	*63	*61	*91

NOTES * (BASED ON LESS THAN FULL MONTHS)
(AT LEAST ONE DAY LESS THAN 24 OBS)

CONTINUED ON NEXT PAGE....

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

EXTREME VALUES OF MAXIMUM TEMPERATURE
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 106420 STATION NAME: HAHAU AAF GERMANY PERIOD OF RECORD: 56-86

WHOLE DEGREES FAHRENHEIT

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
86	*50	*45	*63	*73	*82	*91	*91						
MEAN	50.6	53.0	63.8	74.9	81.2	87.8	90.7	90.1	81.3	71.0	58.4	51.9	93.1
S.D.	4.719	5.760	6.220	4.555	4.622	4.746	4.519	4.602	3.519	6.545	4.628	4.909	2.232
TOTAL OBS	810	731	840	813	821	806	809	799	777	818	770	785	9579

NOTES * (BASED ON LESS THAN FULL MONTHS)
(AT LEAST ONE DAY LESS THAN 24 OBS)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

EXTREME VALUES OF MINIMUM TEMPERATURE
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 106420 STATION NAME: HAHAU AAF GERMANY PERIOD OF RECORD: 56-85

WHOLE DEGREES FAHRENHEIT
-M=0-N=1-H=2-S=

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
56										31	18	*13	
57	*14	27	26	28	32	42	*50	*42	*35	*32	*27	*20	*14
58	*11	*19	*15	*23	*39	*45	*50	*49	*43	*32	*33	*19	*11
59	*16	*16	*28	*27	*37	*46	*53	*47	*35	*27	*26	*28	*16
60	*-4	*18	*29	*33	*33	*43	*47	*50	*36	*34	*30	*24	*-4
61	*10	*30	*30	*41	*39	*47	*43	*47	*44	*35	*23	*10	*10
62	*17	*18	*17	*34	*36	*38	*45	*45	*37	*29	*25	*6	*6
63	*1	*2	*9	*30	*39	*48	*47	*44	*41	*30	*35	*12	*1
64	*9	*20	*21	34	*40	*45	*40	*43	*38	*30	30	*13	*9
65	*25	19	18	32	35	45	46	44	40	29	16	28	16
66	4	31	27	34	37	44	45	46	39	31	24	27	4
67	10	24	31	29	34	40	46	46	44	33	27	9	9
68	-3	14	23	28	36	44	48	48	46	32	28	15	-3
69	24	0	24	28	39	42	46	44	41	37	24	0	0
70	10	4	22	28	32	41	44	48	37	30	28	10	4
71	-1	17	12	32	37	44	44	46	36	32	24	24	-1
72	12	11	23	26	39	42	46	44	35	28	26	17	11
73	15	24	26	28	35	42	46	46	39	30	15	*3	*3
74	*28	*30	30	30	37	42	44	46	39	33	26	28	26
75	30	24	30	30	39	39	50	51	46	33	19	21	19
76	3	24	17	24	35	44	48	46	41	35	*28	*1	*1
77	*28	*26	*21	*28	*39	*39	*48	*48	*37	*35	*21	*24	*21
78	*24	*15	*26	*26	*39	*44	*48	*37	*35	*32	*21	*17	*15
79	*-5	*23	*32	*33	*33	*51	*46	*44	*36	*34	*30	*28	*-5
80	*14	*27	*30	*34	*36	*46	*48	*43	*45	*32	*27	*18	*14
81	*16	*19	*32	*30	*39	*48	*48	*43	*43	*36	*25	*16	*16
82	*0	*21	*30	*30	*37	*48	*55	*52	*43	*43	*32	*30	*0
83	*27	*16	*28	*34	*46	*48	*50	*50	*41	*30	*19	*16	*16
84	*25	*19	*27	*34	*37	*45	*50	*52	*43	*37	*30	*23	*19
85	*3	*1	*28	*32	*39	*45	*50	*45	*37	*30	*19	*16	*1

NOTES * (BASED ON LESS THAN FULL MONTHS)
(AT LEAST ONE DAY LESS THAN 24 OBS)

CONTINUED ON NEXT PAGE....

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

EXTREME VALUES OF MINIMUM TEMPERATURE
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 106429 STATION NAME: HANAU AAF GERMANY PERIOD OF RECORD: 56-86

WHOLE DEGREES FAHRENHEIT

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
86	*18	*9	*30	*28	*43	*45	*48						
MEAN	10.4	18.3	23.8	29.4	35.9	42.4	46.3	46.3	40.3	31.8	23.8	17.9	5.4
S.D.	10.532	9.440	5.570	2.872	2.397	1.758	1.915	2.006	3.596	2.444	4.892	9.487	77.308
TOTAL OBS	810	731	840	813	821	806	809	799	777	818	770	785	9579

NOTES * (BASED ON LESS THAN FULL MONTHS)
N (AT LEAST ONE DAY LESS THAN 24 OBS)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

DRY-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

106420 (STATION) HANAU AAF GERMANY (STATION NAME) 76-86 (YEARS)

HRS. (L.S.T.)		JAN.	FEB	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
06-08	MEAN	31.9	30.8	39.5	42.7	51.7	57.9	60.0	58.4	53.1	46.8	39.2	35.6	47.2
	S. D.	9.504	9.228	6.643	6.188	6.583	6.031	5.662	5.582	5.778	7.191	7.427	8.470	12.116
	TOTAL OBS	485	435	496	625	639	652	605	696	672	478	432	412	6627
09-11	MEAN	32.5	33.2	42.5	48.5	57.9	64.0	66.8	66.2	59.6	51.2	41.3	36.4	50.4
	S. D.	9.167	8.047	6.334	7.468	7.624	7.454	7.682	6.096	5.886	7.284	7.757	8.140	14.278
	TOTAL OBS	659	588	680	650	656	652	636	704	686	660	592	615	7778
12-14	MEAN	35.5	37.6	47.6	53.6	62.4	68.3	71.6	71.9	65.5	56.8	44.7	39.1	55.0
	S. D.	8.054	7.259	6.900	8.937	9.271	9.003	8.997	7.097	6.735	7.966	7.805	7.698	15.181
	TOTAL OBS	654	583	681	641	662	654	636	707	664	636	589	608	7715
15-17	MEAN	36.2	39.2	49.4	54.7	64.0	69.7	73.2	73.5	66.9	57.9	44.9	39.1	56.1
	S. D.	7.984	7.230	7.169	9.535	9.971	9.635	9.348	7.725	7.301	8.199	7.857	7.473	15.650
	TOTAL OBS	638	586	681	621	645	638	636	696	627	614	586	596	7564
18-20	MEAN	34.2	36.1	46.3	51.8	61.6	67.4	70.8	69.9	62.3	53.1	42.5	37.0	53.7
	S. D.	9.131	7.055	6.696	8.341	9.526	8.857	8.942	7.366	6.509	7.060	7.533	7.481	15.130
	TOTAL OBS	535	535	592	554	539	559	598	652	607	560	526	362	6619
21-23	MEAN	33.6	31.2	43.6	47.8	56.5	62.6	65.3	63.9	57.9	50.3	40.1	34.0	52.4
	S. D.	10.232	7.346	7.249	6.963	7.486	7.354	6.935	5.576	5.289	6.992	7.455	7.271	13.260
	TOTAL OBS	174	177	225	300	284	335	371	379	366	228	220	117	3176
	MEAN													
	S. D.													
	TOTAL OBS													
	MEAN													
	S. D.													
	TOTAL OBS													
ALL HOURS	MEAN	34.1	35.4	45.3	50.0	59.2	65.1	68.2	67.6	61.0	53.2	42.5	37.5	52.6
	S. D.	8.972	8.282	7.557	9.098	9.596	9.173	9.306	8.513	7.951	8.437	7.952	7.983	14.793
	TOTAL OBS	3145	2904	3355	3391	3425	3490	3482	3834	3622	3176	2945	2710	39479

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

DEW-POINT TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

106420 (STATION) HANAU AAF GERMANY (STATION NAME) 76-86 (YEARS)

HRS. (L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
06-08	MEAN	28.4	26.3	35.1	37.3	46.2	52.1	54.6	53.9	50.0	44.3	36.4	32.9	42.9
	S.D.	9.498	11.210	6.961	6.224	6.141	5.605	4.611	5.084	5.553	6.921	7.644	8.496	11.741
	TOTAL OBS	482	435	495	625	639	651	604	696	672	477	431	412	6619
09-11	MEAN	28.3	27.6	36.4	38.6	47.4	53.2	55.7	55.6	51.7	45.8	37.4	32.8	42.8
	S.D.	9.315	9.957	6.695	6.447	6.170	5.782	4.833	5.011	5.651	6.535	7.551	8.071	12.078
	TOTAL OBS	658	588	680	650	656	652	636	704	686	660	592	615	7777
12-14	MEAN	30.1	29.4	37.4	39.3	47.8	53.1	55.5	55.7	52.5	47.4	38.5	34.2	43.7
	S.D.	8.289	9.167	6.858	7.037	6.848	5.937	5.212	5.461	6.123	6.540	7.105	7.430	11.591
	TOTAL OBS	654	583	681	641	662	654	636	707	664	636	589	608	7715
15-17	MEAN	30.6	29.7	37.4	38.9	47.6	53.1	55.7	55.2	53.0	47.7	38.6	34.1	43.7
	S.D.	8.578	8.914	6.985	6.650	6.863	5.964	5.448	5.705	6.140	6.528	6.882	7.221	11.544
	TOTAL OBS	636	586	681	621	645	638	636	696	627	614	586	596	7562
18-20	MEAN	29.8	28.9	36.8	38.4	47.6	53.3	56.1	55.3	53.1	47.0	37.9	33.1	43.8
	S.D.	9.734	8.829	6.953	5.986	6.775	5.912	5.210	5.597	5.881	6.410	7.115	7.304	11.873
	TOTAL OBS	535	535	592	554	539	559	598	652	607	560	526	362	6619
21-23	MEAN	29.1	23.9	36.0	38.2	47.3	53.1	56.2	54.9	52.0	45.9	36.2	30.7	45.0
	S.D.	10.748	9.436	7.913	5.865	6.803	5.850	4.970	5.521	5.485	6.637	7.549	7.090	12.102
	TOTAL OBS	174	177	225	300	284	335	371	378	366	228	220	117	3175
	MEAN													
	S.D.													
	TOTAL OBS													
	MEAN													
	S.D.													
	TOTAL OBS													
ALL HOURS	MEAN	29.4	28.2	36.7	38.5	47.3	53.0	55.6	55.1	52.0	46.5	37.7	33.4	43.5
	S.D.	9.184	9.694	6.997	6.466	6.601	5.851	5.085	5.425	5.929	6.675	7.316	7.712	11.808
	TOTAL OBS	3139	2904	3354	3391	3425	3489	3481	3833	3622	3175	2944	2710	39467

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

106420 HANAU AAF GERMANY 77-86 JAN

STATION STATION NAME PERIOD MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	00-02											
	03-05											
	06-08	100.0	100.0	100.0	100.0	100.0	99.8	92.9	75.5	42.1	87.1	482
	09-11	100.0	100.0	100.0	100.0	99.8	98.9	91.2	68.8	33.6	85.0	458
	12-14	100.0	100.0	100.0	100.0	99.7	96.6	82.1	54.7	18.2	80.9	654
	15-17	100.0	100.0	100.0	100.0	99.5	95.6	79.9	50.2	17.9	80.1	636
	18-20	100.0	100.0	100.0	100.0	99.1	96.3	88.4	67.1	32.3	84.2	535
	21-23	100.0	100.0	100.0	100.0	100.0	94.3	85.6	69.5	32.8	83.9	174
TOTALS		100.0	100.0	100.0	100.0	99.7	96.9	86.7	64.3	29.5	83.5	3139

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

106420 (STATION) HANAU AAF GERMANY (STATION NAME) 77-86 (PERIOD) FEB (MONTH)

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
FEB	00-02											
	03-05											
	06-08	100.0	100.0	99.3	99.1	96.8	94.9	87.6	68.3	37.0	83.8	435
	09-11	100.0	100.0	99.8	99.5	96.9	92.9	78.2	55.3	24.3	80.3	588
	12-14	100.0	100.0	99.1	96.9	93.0	83.7	58.3	33.8	11.1	73.3	583
	15-17	100.0	99.8	98.8	97.6	90.8	70.6	49.3	25.6	8.0	70.0	586
	18-20	100.0	100.0	99.4	98.7	95.5	86.2	68.0	41.7	15.7	76.1	535
	21-23	100.0	100.0	100.0	98.3	95.5	87.6	62.7	40.1	14.7	75.3	177
TOTALS		100.0	100.0	99.4	98.4	94.8	86.0	67.4	44.1	18.5	76.5	2904

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

106420 (STATION) HANAU AAF GERMANY (STATION NAME) 77-86 (PERIOD) MAR (MONTH)

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAR	00-02											
	03-05											
	06-08	100.0	100.0	100.0	100.0	99.8	98.8	89.9	67.1	34.1	84.7	495
	09-11	100.0	100.0	99.9	99.1	97.9	93.8	75.6	43.5	16.3	78.4	680
	12-14	100.0	99.9	99.4	97.5	90.3	73.6	47.7	19.2	4.8	69.0	681
	15-17	100.0	100.0	99.1	95.3	82.2	63.4	35.4	15.0	2.8	64.8	681
	18-20	100.0	100.0	99.2	97.8	92.2	77.7	52.0	26.5	5.4	70.7	592
	21-23	100.0	100.0	98.2	98.2	96.9	89.8	68.4	40.9	11.1	75.8	225
TOTALS		100.0	100.0	99.3	98.0	93.2	82.9	61.5	35.4	12.4	73.9	3354

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

106420 (STATION) HANAU AAF GERMANY (STATION NAME) 77-86 (PERIOD) APR (MONTH)

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
APR	00-02											
	03-05											
	06-08	100.0	100.0	100.0	100.0	99.4	96.8	85.3	55.4	21.1	81.6	625
	09-11	100.0	100.0	100.0	97.7	88.5	74.9	49.1	25.1	8.2	70.0	650
	12-14	100.0	100.0	99.1	88.5	69.9	48.5	28.5	11.7	2.8	60.4	641
	15-17	100.0	100.0	97.6	82.4	59.6	44.0	26.2	9.3	2.6	57.7	621
	18-20	100.0	100.0	99.6	90.8	72.6	52.0	35.9	13.5	3.6	62.5	554
	21-23	100.0	100.0	100.0	99.0	90.3	74.0	53.3	28.3	8.0	70.8	300
TOTALS		100.0	100.0	99.4	93.1	80.1	65.0	46.4	23.9	7.7	67.2	3391

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

106420 (STATION) HANAU AAF GERMANY (STATION NAME) 77-86 (PERIOD) MAY (MONTH)

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAY	00-02											
	03-05											
	06-08	100.0	100.0	100.0	100.0	99.8	97.0	83.9	56.2	26.3	82.0	639
	09-11	100.0	100.0	100.0	98.5	91.3	69.7	46.5	22.7	9.9	69.3	656
	12-14	100.0	100.0	98.8	89.7	69.3	48.0	29.0	14.7	6.2	61.2	662
	15-17	100.0	100.0	95.7	79.8	60.5	41.1	27.8	14.1	4.8	58.2	645
	18-20	100.0	100.0	98.1	87.8	68.8	49.5	36.4	21.0	10.4	62.9	539
	21-23	100.0	100.0	100.0	99.3	94.0	75.4	53.9	31.3	17.3	72.8	684
TOTALS		100.0	100.0	98.8	92.5	80.6	63.5	46.3	26.7	12.5	67.7	3425

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

106420 STATION | HANAU AAF GERMANY STATION NAME | 73-86 PERIOD | JUN MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUN	00-02											
	03-05											
	06-08	100.0	100.0	100.0	100.0	99.7	96.6	86.9	51.3	20.3	81.4	651
	09-11	100.0	100.0	100.0	98.3	90.6	74.5	49.4	19.6	5.5	69.3	652
	12-14	100.0	100.0	99.7	89.3	69.7	46.2	26.5	12.4	3.4	60.4	654
	15-17	100.0	100.0	96.9	85.3	61.0	40.8	25.4	11.9	4.1	58.2	638
	18-20	100.0	100.0	99.1	90.2	76.2	54.6	34.2	14.5	4.1	62.9	559
	21-23	100.0	100.0	100.0	97.6	91.3	80.3	62.4	31.3	8.4	72.7	335
TOTALS		100.0	100.0	99.3	93.5	81.4	65.5	47.5	23.5	7.6	67.5	3489

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

106420 (STATION) HANAU AAF GERMANY (STATION NAME) 77-86 (PERIOD) JUL (MONTH)

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUL	00-02											
	03-05											
	06-08	100.0	100.0	100.0	100.0	100.0	97.4	90.9	57.1	21.4	82.7	604
	09-11	100.0	100.0	100.0	99.2	90.4	71.1	47.3	19.5	5.8	68.9	636
	12-14	100.0	100.0	99.4	89.9	66.7	40.7	23.1	9.1	1.3	58.7	636
	15-17	100.0	100.0	98.3	83.2	60.1	35.7	19.7	7.4	1.1	56.4	636
	18-20	100.0	100.0	99.3	91.3	73.7	49.2	31.9	11.9	4.0	61.7	598
	21-23	100.0	100.0	100.0	100.0	96.5	82.5	60.4	26.7	9.4	73.3	371
TOTALS		100.0	100.0	99.5	93.9	81.2	62.8	45.6	22.0	7.2	67.0	3481

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

106420 (STATION) HANAU AAF GERMANY (STATION NAME) 76-85 (PERIOD) AUG (MONTH)

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
AUG	00-02											
	03-05											
	06-08	100.0	100.0	100.0	100.0	99.6	97.7	92.2	67.8	34.2	85.1	696
	09-11	100.0	100.0	100.0	98.6	91.6	75.3	52.4	19.7	5.4	70.0	704
	12-14	100.0	100.0	98.3	90.1	67.6	39.0	21.6	7.4	2.1	58.4	707
	15-17	100.0	99.6	96.4	83.5	53.4	31.2	16.2	7.6	2.7	54.8	696
	18-20	100.0	100.0	98.5	92.6	74.5	49.8	30.4	12.6	5.5	62.0	652
	21-23	100.0	100.0	99.7	98.4	95.0	81.7	63.8	31.2	9.8	73.6	378
TOTALS		100.0	99.9	98.8	93.9	80.3	62.5	46.1	24.4	10.0	67.3	3833

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

106420 (STATION) HANAU AAF GERMANY (STATION NAME) 76-85 (PERIOD) SEP (MONTH)

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
SEP	00-02											
	03-05											
	06-08	100.0	100.0	100.0	100.0	100.0	99.3	97.9	84.2	52.2	89.4	672
	09-11	100.0	100.0	100.0	99.9	98.4	88.8	71.6	32.7	11.2	76.0	686
	12-14	100.0	100.0	100.0	99.1	87.8	59.2	30.1	9.8	3.5	64.1	664
	15-17	100.0	100.0	100.0	96.5	78.9	51.4	28.9	10.5	3.3	62.5	627
	18-20	100.0	100.0	100.0	99.3	95.4	80.4	60.6	28.3	10.4	73.0	607
	21-23	100.0	100.0	100.0	100.0	99.5	95.1	86.3	52.7	21.9	81.4	366
TOTALS		100.0	100.0	100.0	99.1	93.3	79.0	62.6	36.4	17.1	74.4	3622

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

106420 (STATION) HANAU AAF GERMANY (STATION NAME) 76-85 (PERIOD) OCT (MONTH)

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
OCT	00-02											
	03-05											
	06-08	100.0	100.0	100.0	100.0	99.8	99.8	98.3	88.7	60.8	90.9	477
	09-11	100.0	100.0	100.0	100.0	99.4	96.8	87.9	59.2	27.4	82.5	660
	12-14	100.0	100.0	100.0	98.9	94.0	79.4	59.4	29.7	7.1	72.1	636
	15-17	100.0	100.0	100.0	99.3	92.7	74.6	52.6	22.5	6.4	69.9	614
	18-20	100.0	100.0	100.0	100.0	99.5	95.7	83.6	51.4	17.1	80.3	560
	21-23	100.0	100.0	100.0	100.0	100.0	99.6	92.5	69.7	28.9	85.1	220
TOTALS		100.0	100.0	100.0	99.7	97.6	91.0	79.1	53.5	24.6	80.1	3175

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

106420 (STATION) HANAU AAF GERMANY (STATION NAME) 76-85 (PERIOD) NOV (MONTH)

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
NOV	00-02											
	03-05											
	06-08	100.0	100.0	100.0	100.0	99.8	98.8	97.9	87.7	53.8	89.7	431
	09-11	100.0	100.0	100.0	100.0	100.0	99.0	94.3	72.3	38.3	86.3	592
	12-14	100.0	100.0	100.0	100.0	99.5	96.4	81.0	45.3	18.5	79.6	589
	15-17	100.0	100.0	100.0	100.0	99.5	96.9	79.4	43.9	14.8	79.3	586
	18-20	100.0	100.0	99.8	99.8	99.8	99.0	93.2	64.3	27.6	84.1	526
	21-23	100.0	100.0	100.0	100.0	100.0	99.5	92.7	71.8	35.9	86.1	220
TOTALS		100.0	100.0	100.0	100.0	99.8	98.3	89.8	64.2	31.5	84.2	2944

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

106420 (STATION) HANAU AAF GERMANY (STATION NAME) 76-85 (PERIOD) DEC (MONTH)

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
DEC	00-02											
	03-05											
	06-08	100.0	100.0	100.0	100.0	100.0	99.8	97.1	87.9	53.9	90.0	412
	09-11	100.0	100.0	100.0	100.0	100.0	99.3	94.3	76.7	42.3	87.2	615
	12-14	100.0	100.0	100.0	100.0	99.8	97.7	87.3	59.5	27.3	82.8	608
	15-17	100.0	100.0	100.0	100.0	100.0	97.7	87.2	59.1	26.0	82.6	596
	18-20	100.0	100.0	100.0	100.0	100.0	100.0	93.9	74.9	36.2	86.2	362
	21-23	100.0	100.0	100.0	100.0	100.0	100.0	94.9	83.8	38.5	88.2	117
TOTALS		100.0	100.0	100.0	100.0	100.0	99.1	92.5	73.7	37.4	86.2	2710

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

106420 (STATION) HANAU AAF GERMANY (STATION NAME) 76-86 (PERIOD) ALL (MONTH)

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	ALL	100.0	100.0	100.0	100.0	99.7	96.9	86.7	64.3	29.5	83.5	3139
FEB		100.0	100.0	99.4	98.4	94.8	86.0	67.4	44.1	18.5	76.5	2904
MAR		100.0	100.0	99.3	98.0	93.2	82.9	61.5	35.4	12.4	73.9	3354
APR		100.0	100.0	99.4	93.1	80.1	65.0	46.4	23.9	7.7	67.2	3391
MAY		100.0	100.0	98.8	92.5	80.6	63.5	46.3	26.7	12.5	67.7	3425
JUN		100.0	100.0	99.3	93.5	81.4	65.5	47.5	23.5	7.6	67.5	3489
JUL		100.0	100.0	99.5	93.9	81.2	62.8	45.6	22.0	7.2	67.0	3481
AUG		100.0	99.9	98.8	93.9	80.3	62.5	46.1	24.4	10.0	67.3	3833
SEP		100.0	100.0	100.0	99.1	93.3	79.0	62.6	36.4	17.1	74.4	3622
OCT		100.0	100.0	100.0	99.7	97.6	91.0	79.1	53.5	24.6	80.1	3175
NOV		100.0	100.0	100.0	100.0	99.8	98.3	89.8	64.2	31.5	84.2	2944
DEC		100.0	100.0	100.0	100.0	100.0	99.1	92.5	73.7	37.4	86.2	2710
TOTALS		100.0	100.0	99.5	96.8	90.2	79.4	64.3	41.0	18.0	74.6	39467

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PART $ - PRESSURE SUMMARY

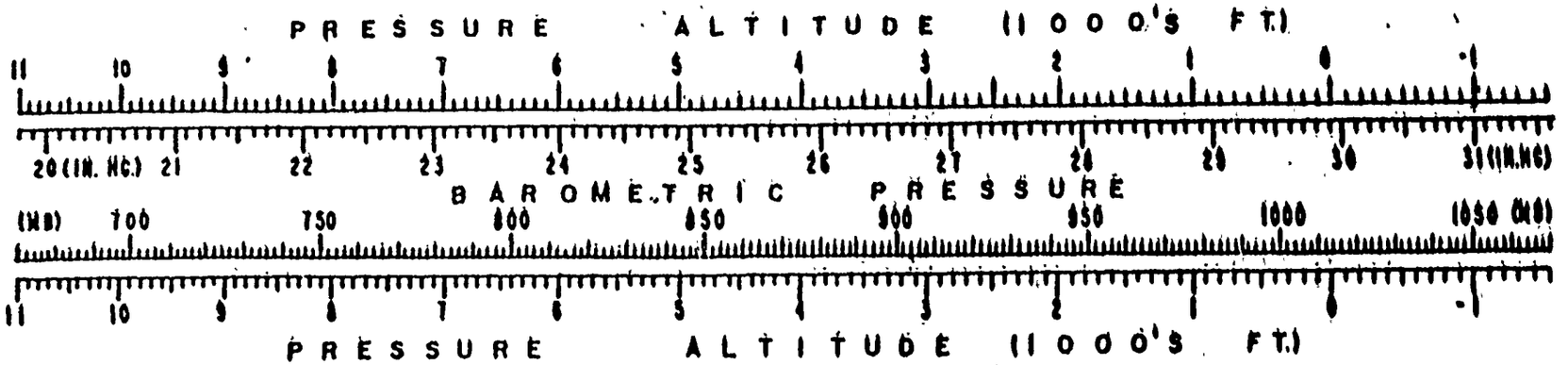
Presented in this part are two tables giving the means, standard deviations, and total number of observations of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding to the eight 3-hourly synoptic times GCT. The same computations are also provided at the bottom of the page for all hours combined. All years of data available are combined in both of these tables, although the overall period is limited by service as indicated below.

NOTES: Station pressure not reported for all services until late in 1945.
Station pressure reported only at 6-hourly times for Air Force stations from Jan 64 - Jul 65.
METAR stations do not report Sea-level pressure.

1. Station pressure is presented in the table in inches of mercury.

2. Sea-level pressure is presented in millibars.

Provided below is a scale to convert station pressure values in inches of mercury or millibars to pressure-altitude in 1000's of feet. This scale is an enlarged model of the pressure-altitude scale in the Smithsonian Meteorological Tables.



GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

STATION PRESSURE IN INCHES HG FROM HOURLY OBSERVATIONS

106420 — STATION
HANAU AAF GERMANY — STATION NAME
76-86 — YEARS

HRS. (L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
01	MEAN													
	S. D.													
	TOTAL OBS													
04	MEAN													
	S. D.													
	TOTAL OBS													
07	MEAN	29.578	29.628	29.543	29.568	29.532	29.610	29.630	29.643	29.673	29.627	29.641	29.586	29.606
	S. D.	.359	.346	.301	.229	.226	.163	.153	.149	.198	.286	.303	.416	.272
	TOTAL OBS	210	196	212	212	211	219	201	233	232	221	199	175	2521
10	MEAN	29.600	29.647	29.550	29.581	29.543	29.617	29.636	29.654	29.692	29.648	29.668	29.580	29.618
	S. D.	.356	.349	.293	.225	.225	.162	.151	.153	.199	.293	.302	.418	.275
	TOTAL OBS	219	198	229	222	220	215	212	235	230	220	197	204	2601
13	MEAN	29.582	29.637	29.539	29.556	29.531	29.604	29.624	29.636	29.674	29.644	29.657	29.565	29.604
	S. D.	.358	.344	.293	.224	.218	.160	.148	.145	.199	.289	.302	.419	.273
	TOTAL OBS	217	195	227	214	220	217	213	238	226	206	199	201	2573
16	MEAN	29.579	29.624	29.520	29.528	29.514	29.587	29.606	29.614	29.658	29.623	29.639	29.560	29.587
	S. D.	.358	.332	.290	.217	.208	.160	.146	.144	.196	.281	.300	.410	.268
	TOTAL OBS	215	196	228	208	220	217	213	233	207	205	198	201	2541
19	MEAN	29.567	29.647	29.542	29.535	29.516	29.580	29.596	29.614	29.661	29.629	29.654	29.588	29.595
	S. D.	.356	.318	.297	.212	.208	.156	.143	.141	.196	.282	.308	.415	.262
	TOTAL OBS	179	183	196	181	177	183	196	216	201	190	181	116	2199
22	MEAN	29.596	29.759	29.606	29.534	29.521	29.593	29.620	29.636	29.678	29.634	29.679	29.712	29.623
	S. D.	.359	.293	.278	.232	.203	.159	.143	.139	.197	.274	.273	.362	.237
	TOTAL OBS	83	87	95	138	130	161	181	175	176	104	100	52	1482
ALL HOURS	MEAN	29.583	29.646	29.544	29.552	29.527	29.599	29.619	29.633	29.673	29.634	29.654	29.582	29.604
	S. D.	.357	.336	.293	.223	.216	.160	.148	.146	.197	.285	.300	.413	.267
	TOTAL OBS	1123	1055	1187	1175	1178	1212	1216	1330	1272	1146	1074	949	13917

.L CLIMATOLOGY BRANCH
ETAC
WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

WET-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

106420 HANAU AAF GERMANY 76-86

STATION STATION NAME YEARS

HRS. (L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
06-08	MEAN	30.7	29.5	37.7	40.4	48.9	54.7	56.9	55.8	51.4	45.6	38.0	34.6	45.1
	S.D.	9.061	9.106	6.301	5.675	5.809	5.282	4.656	4.901	5.401	6.803	7.112	8.106	11.321
	TOTAL OBS	482	435	495	625	639	651	604	696	672	477	431	412	6619
09-11	MEAN	31.1	31.4	40.1	43.9	52.3	57.8	60.2	60.0	55.2	48.4	39.6	35.0	46.6
	S.D.	8.720	7.930	5.833	5.920	5.694	5.446	5.096	4.407	5.049	6.361	7.202	7.673	12.187
	TOTAL OBS	658	588	680	650	656	652	636	704	686	660	592	615	7777
12-14	MEAN	33.5	34.6	43.0	46.7	54.5	59.5	61.9	62.3	58.1	51.8	41.9	37.1	49.1
	S.D.	7.566	6.931	5.801	6.480	6.310	5.682	5.400	4.516	5.282	6.225	6.941	7.029	11.960
	TOTAL OBS	554	583	681	641	662	654	636	707	664	636	589	608	7715
15-17	MEAN	34.2	35.6	43.9	47.1	55.1	60.1	62.7	62.6	59.0	52.4	42.0	37.0	49.6
	S.D.	7.582	6.697	5.783	6.460	6.305	5.754	5.440	4.564	5.357	6.304	6.867	6.803	11.981
	TOTAL OBS	636	586	681	621	645	638	636	696	627	614	586	596	7562
18-20	MEAN	32.7	33.5	42.1	45.5	54.1	59.3	62.0	61.3	57.1	49.9	40.5	35.5	48.6
	S.D.	8.719	6.761	5.801	5.813	6.234	5.614	5.399	4.641	5.175	6.149	6.875	6.949	12.135
	TOTAL OBS	535	535	592	554	539	559	598	652	607	560	526	362	6619
21-23	MEAN	32.0	29.0	40.4	43.4	51.7	57.2	59.9	58.7	54.6	48.0	38.5	32.8	48.6
	S.D.	9.803	7.046	6.671	5.427	6.018	5.428	5.012	4.481	4.871	6.498	7.053	6.836	11.690
	TOTAL OBS	174	177	225	300	284	335	371	378	366	228	220	117	3175
	MEAN													
	S.D.													
	TOTAL OBS													
	MEAN													
	S.D.													
	TOTAL OBS													
ALL HOURS	MEAN	32.5	32.9	41.5	44.6	52.8	58.1	60.7	60.2	55.9	49.7	40.4	35.8	47.9
	S.D.	8.484	7.779	6.292	6.480	6.450	5.853	5.553	5.184	5.831	6.775	7.150	7.378	12.021
	TOTAL OBS	3139	2904	3354	3391	3425	3489	3481	3833	3622	3175	2944	2710	39467